
**2018 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE
ACTION REPORT**

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



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ABBREVIATIONS

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
CFR	Code of Federal Regulations
COC	chain of custody
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet
GW	groundwater
m	meter
mg/L	milligram per liter
MSL	mean sea level
MW-	denotes "Monitoring Well"
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
SM	Standard Method(s)
SSI	statistically significant increase
SSL	statistically significant level
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	United States Geological Survey

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency's (EPA) coal combustion residual (CCR) rule (40 C.F.R. Part 257, Subpart D) and the State of Alabama's ADEM Admin. Code Chapter 335-13-15, this 2018 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the 2018 initial assessment and two semi-annual 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). Initial assessment monitoring, semi-annual 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, data are 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.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

3.1 Physical Setting

Plant Greene County is located in the East Gulf Coastal Plain physiographic province (Sapp and Emplainscourt, 1975). This province consists primarily of flat to gently rolling sandy uplands dissected by deeply entrenched, south to southwest flowing streams and rivers (Dejarnette and Crownover, 1987). Plant Greene County's topography is characterized by gentle relief. 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. Away from the river, in the central upland portion of the property, elevations typically range from approximately 80 to 100 ft above MSL.

3.2 Geology and Hydrogeology

The generalized geology of Greene County consists of 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 ft per mile (or less than two degrees). At Plant Greene County, the Cretaceous sequence is approximately 2,500 ft 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 2, 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 5 to 15 feet 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 ft thick in the south. The base of the alluvium/top of bedrock occurs between approximately 60 and 80 ft above mean sea level (MSL) on the northern side of the pond, and approximately 40 and 20 ft 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's website indicates that the thickness of the Mooreville and Demopolish Chalk formations are likely around 300 to 400 ft at Plant Greene County.

In Greene County, groundwater is available in sand and gravel aquifers of the Cretaceous Eutaw, McShan, Gordo, Coker Formations. These Cretaceous aquifers have a combined thickness of approximately 1000 ft beneath southern Greene County and exists between depths of approximately 400 to 1400 ft 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 ft 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 ft thick at Plant Greene County.

3.3 Uppermost Aquifer

The uppermost aquifer beneath the site corresponds to alluvial and low terrace deposits in which groundwater occurs in the coarser sand and gravel intervals. At the site, the uppermost aquifer is described as a reddish brown to tan, fine to coarse sand with intervals of gravel and clay. Depth to the uppermost aquifer generally occurs between 10 and 20 ft BGS and is 20 to 30 ft thick near the northern area of the pond and 40 to 60 ft near the southern edge of the pond where low permeability Demopolis Chalk is encountered. The uppermost aquifer thins to between a few feet thick to absent towards the north and near

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the plant proper and Black Warrior River. In these locations, groundwater saturation may not be found or in quantities insufficient for low-flow sampling methods. Groundwater recharge to the uppermost aquifer is largely accomplished via infiltration of precipitation and subsequent percolation down to the water table. Temporary recharge to the aquifer may occur during high stage or flood events of the Black Warrior River where surface water may infiltrate via 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 ft of low permeability chalk.

4.0 GROUNDWATER MONITORING SYSTEM AND ACTIVITY

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 and downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. 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. As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following also describes monitoring related-activities performed during the preceding year

4.1 Groundwater Monitoring System

The groundwater monitoring network is comprised of 29 monitoring wells and 4 piezometers. Monitoring well locations are presented on **Figure 3, 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.

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 north of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site. Following the collection of additional data, upgradient monitoring wells GC-AP-MW-11 and GC-AP-MW-12 have since been designated to 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 utilized as downgradient locations for the Ash Pond. Downgradient locations are located west, south, and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site.

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Table 1. Groundwater Monitoring Well Network Details

Well ID	Purpose	Installation Date	Northing	Easting	Total Depth	Top of Casing Elevation (feet MSL)	Ground Elevation (feet MSL)	Top of Screen Elevation (feet MSL)
GC-AP-MW-1	Downgradient	8/26/2015	946095.058	1880860.84	28.45	107.69	104.35	89.63
GC-AP-MW-2	Downgradient	8/26/2015	946275.313	1880351.041	23.65	106.05	103.37	92.8
GC-AP-MW-3	Downgradient	5/7/2013	946518.731	1879899.751	25.00	106.37	103.06	89.77
GC-AP-PZ-4	Piezometer	8/26/2015	947156.411	1879158.907	27.66	103.48	100.7	86.22
GC-AP-MW-5	Downgradient	8/25/2015	945868.72	1879098.549	27.06	108.39	105.61	91.73
GC-AP-MW-6	Downgradient	8/25/2015	945091.716	1878587.509	29.55	102	98.51	82.85
GC-AP-MW-7	Downgradient	5/7/2013	944928.94	1877364.096	30.00	98.55	95.23	76.85
GC-AP-MW-8	Downgradient	8/24/2015	944228.778	1877306.867	30.54	97.06	93.81	76.92
GC-AP-MW-9	Downgradient	5/8/2013	943193.136	1877287.887	35.00	93.12	89.9	71.12
GC-AP-MW-10	Downgradient	9/2/2015	941883.884	1877251.528	25.72	88.27	85.42	72.95
GC-AP-MW-11	Downgradient	4/23/2013	940847.132	1877472.943	35.00	101.22	97.74	73.22
GC-AP-MW-12	Downgradient	8/24/2015	940132.799	1878416.082	36.85	103.18	100.18	76.73
GC-AP-MW-13	Downgradient	4/24/2013	940377.367	1879757.143	25.00	101.09	97.18	82.79
GC-AP-MW-14	Downgradient	8/24/2015	940941.085	1880988.087	22.80	85.62	83.17	73.22
GC-AP-MW-15	Downgradient	8/27/2015	941183.943	1881893.647	40.39	91.7	88.94	61.71
GC-AP-MW-16	Downgradient	8/21/2015	942161.114	1881839.309	48.81	108.74	106.1	70.33

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.

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Table 1. Groundwater Monitoring Well Network Details cont.

Well ID	Purpose	Installation Date	Northing	Easting	Total Depth	Top of Casing Elevation (feet MSL)	Ground Elevation (feet MSL)	Top of Screen Elevation (feet MSL)
GC-AP-MW-17	Downgradient	8/27/2015	943039.251	1881842.218	49.89	104.93	102.27	66.85
GC-AP-MW-18	Downgradient	8/21/2015	943761.404	1881853.449	48.18	105.36	102.14	67.15
GC-AP-PZ-19	Piezometer	8/20/2015	944430.495	1881853.918	39.47	104.81	101.98	75.74
GC-AP-MW-21	Downgradient	12/14/2015	940503.25	1877918.18	40.51	102.35	99.27	75.25
GC-AP-PZ-22	Piezometer	12/15/2015	947922.724	1882517.278	15.00	104.55	101.83	96.83
GC-AP-MW-23	Upgradient	12/15/2015	947562.08	1882485.06	18.53	106	103.25	94.22
GC-AP-MW-24	Upgradient	12/16/2015	947108.604	1882404.441	23.22	104.91	101.68	93.18
GC-AP-MW-25	Downgradient	5/6/2013	945490.181	1889127.695	35.00	90.14	87.44	78.21
GC-AP-MW-26	Upgradient	6/28/2016	944351.106	1890092.898	34.55	88.89	85.46	65.99
GC-AP-MW-27	Upgradient	6/28/2016	942187.048	1889946.802	37.12	88.85	86.57	62.17
GC-AP-MW-28	Upgradient	6/29/2016	944430.936	1889288.393	33.47	89.68	87.3	65.78
GC-AP-MW-29	Upgradient	6/29/2016	942938.832	1888319.488	34.71	93.68	90.94	65.37
GC-AP-MW-30	Upgradient	6/29/2016	945187.401	1873523.89	35.12	105.41	102.65	68.96
GC-AP-MW-31	Downgradient	7/8/2016	948128.48	1875424.052	32.00	108.7	106.06	83.81
GC-AP-MW-32	Downgradient	7/8/2016	946572.017	1875186.706	37.55	108.94	106.11	81.55
GC-AP-MW-33	Downgradient	7/8/2016	946571.93	1875186.73	33.10	104.93	102.27	86.24

- 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.

4.2 Monitoring Well Installation and Maintenance

Monitoring well installation and maintenance activities include the installation of 8 monitoring wells between December 14th and December 31st, 2018. These monitoring wells were installed to characterize the nature and extent of groundwater protection standard (GWPS) exceedances identified during assessment monitoring. Additional monitoring well locations are to be drilled in early 2019. As of December 31, 2018, monitoring well locations were not surveyed or sampled. Monitoring wells installed in 2018 include: GC-AP-MW-35H, GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-42H, and GC-AP-MW-43H.

4.3 Assessment Monitoring

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, Alabama Power 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 Appendix IV parameters in February 2018, within 90 days of initiating the assessment monitoring program. Pursuant to 40 CFR §257.95(d) and ADEM Admin. Code r. 335-13-15-.06(6)(d) monitoring wells were subsequently sampled for Appendix III and Appendix IV parameters in June and November 2018. The June 2018 event was conducted within 90 days of obtaining the results from the February 2018 sampling event. Samples were collected from wells in the Professional Engineer (PE)-certified monitoring systems shown on **Figure 3**. A summary of groundwater sampling events completed in 2018 is provided in **Table 2, Compliance Sampling Events Summary**.

Analytical data from the initial assessment and semi-annual monitoring events are included as **Appendix A, Groundwater Analytical Data**, in accordance with the requirements of §257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

Table 2. Compliance Sampling Events Summary			
	Sampling Purpose	Constituents Sampled	Laboratory Receipt Date
Compliance Event 1	Initial Assessment	Appendix IV	04/13/2018
Compliance Event 2	Assessment Monitoring	Appendices III and IV	07/16/2018
Compliance Event 3	Assessment Monitoring	Appendices III and IV	12/13/2018

4.4 Additional Groundwater Sampling

Additional groundwater sampling was performed in September and November to further characterize groundwater quality at the site. Groundwater samples were collected following the procedures described in Section 5.0. Analytical results are included in **Appendix A**. Additional sampling was completed for the following analytes:

- Alkalinity, Total
- Bicarbonate Alkalinity
- Calcium, Total
- Carbonate Alkalinity
- Chloride
- Conductivity
- Dissolved Oxygen
- Dissolved Solids
- Iron, Dissolved
- Iron, Total
- Magnesium, Total
- Manganese, Dissolved
- Manganese, Total
- ORP
- pH
- pH for Alkalinity
- Potassium, Total
- Sodium, Total
- Sulfate
- Temperature
- Turbidity

5.0 SAMPLING METHODOLOGY AND ANALYSIS

The following describes the methods used to conduct assessment monitoring at the Plant Greene County Ash Pond.

5.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from the certified well network and piezometers. Groundwater levels recorded during the monitoring events are summarized in **Table 3, Groundwater Elevations Summary 2018**. Groundwater levels and top of casing elevations were used to calculate groundwater elevation and develop the potentiometric surface elevation contour map provided as **Figures 4 through 6, Potentiometric Surface Contour Map(s)**. The principal direction of groundwater flow is towards the south with components of flow towards the north, west, and east also observed.

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Table 3				
Groundwater Elevations Summary 2018				
Well ID	Top of Casing Elevation (ft MSL)	Groundwater Elevations		
		(feet MSL)		
		Feb-18	June-18	Nov-18
GC-AP-MW-1	107.69	90.96	91.27	90.00
GC-AP-MW-2	106.05	99.78	99.29	98.83
GC-AP-MW-3	106.36	100.01	99.08	98.76
GC-AP-PZ-4	103.48	94.83	94.24	91.49
GC-AP-MW-5	108.39	100.86	99.30	96.00
GC-AP-MW-6	102.00	98.31	97.42	95.59
GC-AP-MW-7	98.59	92.04	91.09	87.71
GC-AP-MW-8	97.06	90.52	89.32	86.31
GC-AP-MW-9	93.22	89.76	88.4	85.24
GC-AP-MW-10	88.27	84.04	83.4	83.51
GC-AP-MW-11	101.22	84.97	84.87	84.09
GC-AP-MW-12	103.18	85.61	85.44	84.95
GC-AP-MW-13	101.11	82.20	81.66	80.14
GC-AP-MW-14	85.62	82.25	78.72	76.89
GC-AP-MW-15	91.70	79.93	75.90	74.75
GC-AP-MW-16	108.74	79.84	76.51	75.11
GC-AP-MW-17	106.34	81.16	77.42	76.24
GC-AP-MW-18	105.36	81.18	77.06	76.14
GC-AP-PZ-19	104.81	79.69	76.71	84.39
GC-AP-PZ-20	104.89	--	--	--
GC-AP-MW-21	105.57	85.77	85.67	85.15
GC-AP-PZ-22	104.55	--	--	--
GC-AP-MW-23	102.59	88.12	88.64	87.38
GC-AP-MW-24	106.00	87.208	86.248	86.80
GC-AP-MW-25	104.91	99.88	99.66	98.16
GC-AP-MW-26	88.96	85.64	83.51	78.81
GC-AP-MW-27	90.14	83.70	82.66	78.34
GC-AP-MW-28	88.89	82.61	81.51	77.69
GC-AP-MW-29	88.85	84.9	83.00	78.55
GC-AP-MW-30	89.68	83.13	81.93	78.18
GC-AP-MW-31	93.68	89.15	87.58	82.46
GC-AP-MW-32	105.41	86.85	87.74	86.76
GC-AP-MW-33	108.70	87.29	88.35	86.65

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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 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, which is used in the flow calculations. An effective porosity of 25% was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (U.S. USEPA, 1996).

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 $\left(\frac{\text{feet}}{\text{day}}\right)$
- $K =$ Average Permeability of the aquifer $\left(\frac{\text{feet}}{\text{day}}\right)$
- $i =$ Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{feet}}\right)$
- $n_e =$ Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the site and are tabulated on **Table 4, Flow Rate Calculations**. **Table 4** presents the velocities calculated using groundwater elevation data from the sampling events in 2018.

TABLE 4. Flow Rate Calculations								
Date	K	η_e	MW-25	MW-18	Δh	L	i	v
6/4/2018	51.93	0.25	99.66	77.06	22.60	1,815	0.012	2.49 ft/d
Date	K	η_e	MW-6	MW-7	Δh	L	i	v
6/4/2018	51.93	0.25	97.42	91.09	6.33	1,230	0.005	1.03 ft/d

As presented on **Table 4**, groundwater flow velocity at the site ranges from approximately 1.03 feet/day (or approximately 2.8×10^{-3} feet/year) to 2.49 feet/day (or approximately 6.8×10^{-3} feet/year) across the Unit 2 aquifer at the site. These calculated groundwater flow velocities across the site are consistent with expected velocities in the uppermost aquifer.

5.2 Groundwater Sampling

Groundwater samples were collected 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 whereby samples are collected when field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) were measured to determine stabilization. Groundwater samples were collected when the following stabilization criteria were 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 5 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.

5.3 Laboratory Analysis

Laboratory analyses was performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama or Test America, Inc. (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. Groundwater data and chain of custody records for the monitoring events are presented in **Appendix A**.

5.4 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 10 detection samples. Equipment blanks and duplicate samples were also collected

during each sampling event. QA/QC sample data was evaluated during data validation and is included in **Appendix A**.

Groundwater quality data for the most recent sampling event was validated for the most recent sampling event following guidance from the EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits.

Where appropriate, validation qualifiers and flags are applied to the data using the procedures in EPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance. Flagged data is identified in the statistical analysis reports.

6.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to 40 CFR §257.93 and ADEM Admin. Code r. 335-13-15-.06(4) and following the appropriate PE-certified method. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC. (GSC), in accordance with 40 CFR §257.93(f) and ADEM Admin. Code r. 335-13-15-.06(4)(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (USEPA, 2009).

6.1 Statistical Methods

The Sanitas groundwater statistical software was 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 USEPA regulations. Although Assessment Monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine if constituents have returned to background conditions. Statistical analysis was performed using methods described in the PE-certified statistical analysis plan for the site.

6.1.1 Appendix III Constituents

Statistical tests used to evaluate the groundwater monitoring data consist of interwell and intrawell prediction limit methods. Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, sulfate and TDS; and intrawell prediction limits combined with a 1-of-3 verification strategy were constructed for pH. In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample, and the 1-of-3 plan allows for up to two resample, 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 the resample falls within the statistical limit, the initial exceedance is considered a false positive result and, therefore, no further action is necessary.

A summary table of the statistical limits accompanies the prediction limits in **Appendix B, Statistical Data Evaluation**.

6.1.2 Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from 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 upon the number of background samples. The background limits were then used when determining the groundwater protection standard (GWPS).

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

- (1) The maximum contaminant level established under §141.62 and 141.66 of this title (the “MCL”).
- (2) Where an MCL has not been established:
 - (i) Cobalt 6 micrograms per liter (ug/l);
 - (ii) Lead 15 ug/l;
 - (iii) Lithium 40 ug/l; and
 - (iv) Molybdenum 100 ug/l.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Existing ADEM Admin Code r. 335-13-15 includes boron as an Appendix IV assessment monitoring parameter; therefore, it is included in the statistical analysis for the site. As explained in the Preamble to the federal CCR rule, the GWPSs listed above for cobalt, lead, lithium, and molybdenum are USEPA-established “Regional Screening Levels” (RSLs) that are used where an MCL has not been established. Following the procedure used by USEPA for the federal CCR rule, the USEPA-established RSL for boron (4.0 mg/L) was used as a GWPS for statistical comparison of boron data. **Table 5, Summary of Background Levels and Groundwater Protection Standards**, summarizes the background limit established at each monitoring well and the GWPS.

Table 5. Summary of Background Levels and Groundwater Protection Standards			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.008, 0.005	0.01
Barium	mg/L	0.198, 0.347	2
Beryllium	mg/L	0.003	0.004
Boron	mg/L	0.615, 0.304	4
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0664, 0.0167	0.006
Fluoride	mg/L	0.31	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.544, 0.532	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.127, 0.0833	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002
Total Radium-226/228	pCi/L	1.88	5

Notes:

1. Where 2 numbers are present, they denote the different background levels and background-derived GWPS for each of the 2 semi-annual monitoring events in the order that they were determined.

6.2 Statistical Analysis Results

Analytical data from the 2018 semiannual monitoring events in June and November were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017). Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

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

6.2.1 First Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data identified the following statistically significant levels (SSLs) over GWPS at the listed wells:

- GC-AP-MW-1: Arsenic
- GC-AP-MW-5: Arsenic
- GC-AP-MW-10: Arsenic
- GC-AP-MW-14: Arsenic
- GC-AP-MW-15: Lithium
- GC-AP-MW-16: Arsenic
- GC-AP-MW-17: Arsenic, Lithium
- GC-AP-MW-18: Arsenic

6.2.2 Second Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data identified the following SSLs over GWPS at the listed wells:

- GC-AP-MW-1: Arsenic, Cobalt
- GC-AP-MW-5: Arsenic
- GC-AP-MW-10: Arsenic
- GC-AP-MW-11: Cobalt
- GC-AP-MW-14: Arsenic
- GC-AP-MW-15: Lithium
- GC-AP-MW-16: Arsenic
- GC-AP-MW-17: Arsenic, Lithium
- GC-AP-MW-18: Arsenic

7.0 MONITORING PROGRAM STATUS

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 Plant Greene County Ash Pond during sampling events conducted in 2018. Alternate Source Demonstrations (ASDs) have not been completed for Appendix IV constituents exceeding the GWPS; therefore, in accordance with §257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4(i), APC will implement assessment of corrective measures as required by §257.96 and ADEM Admin. Code r. 335-13-15-.06(7).

8.0 CONCLUSIONS AND FUTURE ACTIONS

Based on results reported in the *2017 Annual Groundwater and Corrective Action Monitoring Report*, APC initiated an assessment monitoring program on January 15, 2018. Groundwater samples were subsequently collected from the certified well network and analyzed for Appendix IV parameters.

The certified compliance monitoring well network was resampled on a semi-annual basis, occurring in June and November 2018. The groundwater samples were analyzed for all Appendix III & IV parameters. The data from the semi-annual events were statistically evaluated relative to GWPS. Statistical evaluations of the June and November 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS.

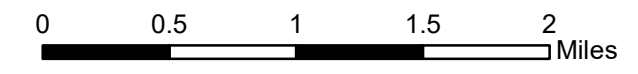
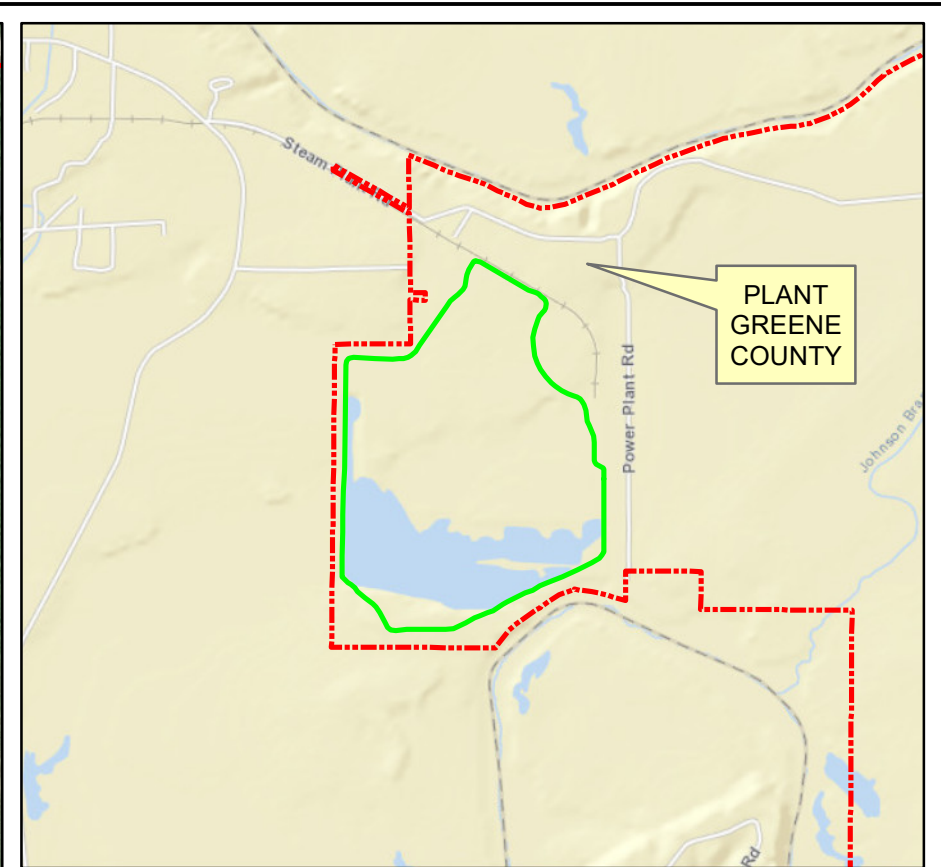
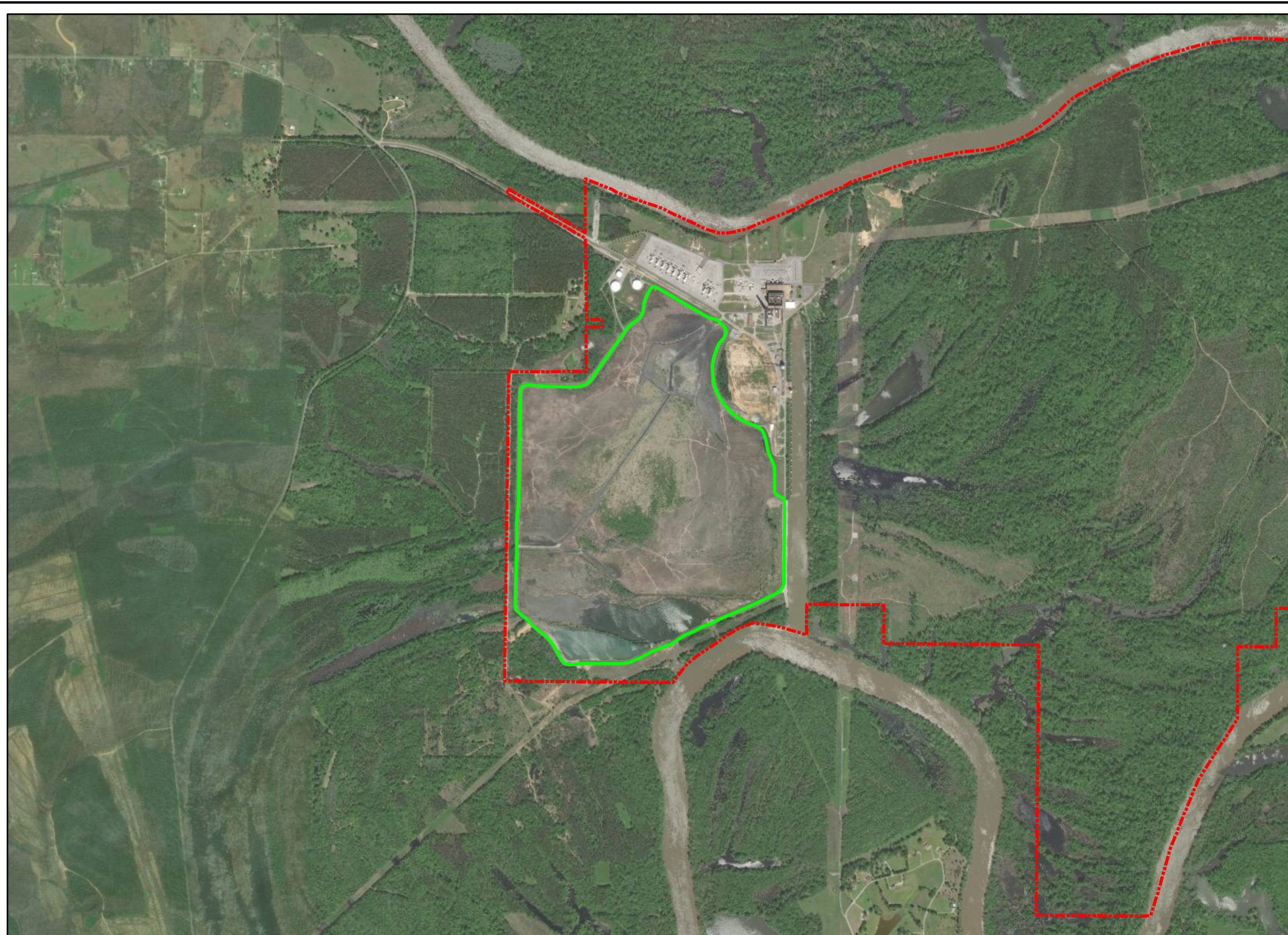
Additional groundwater samples were collected to further characterize groundwater quality. An ASD was not prepared to address the Appendix IV SSLs. APC will characterize the nature and extent of GWPS exceedances as required by §257.95(g)(1) and ADEM Admin. Code r. 335-13-15-.06(6)(g)2 and perform an assessment of corrective measures pursuant to §257.96 and ADEM Admin. Code r. 335-13-15-.06(7).

The first semi-annual assessment monitoring event is planned for March 2019.

9.0 REFERENCES

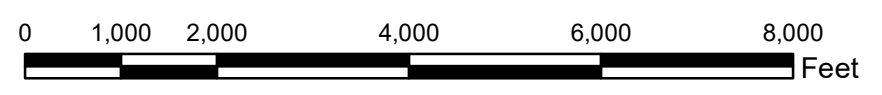
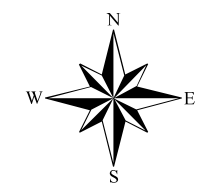
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Figures



Legend

- Property Boundary (Approximate)
- Ash Pond Boundary



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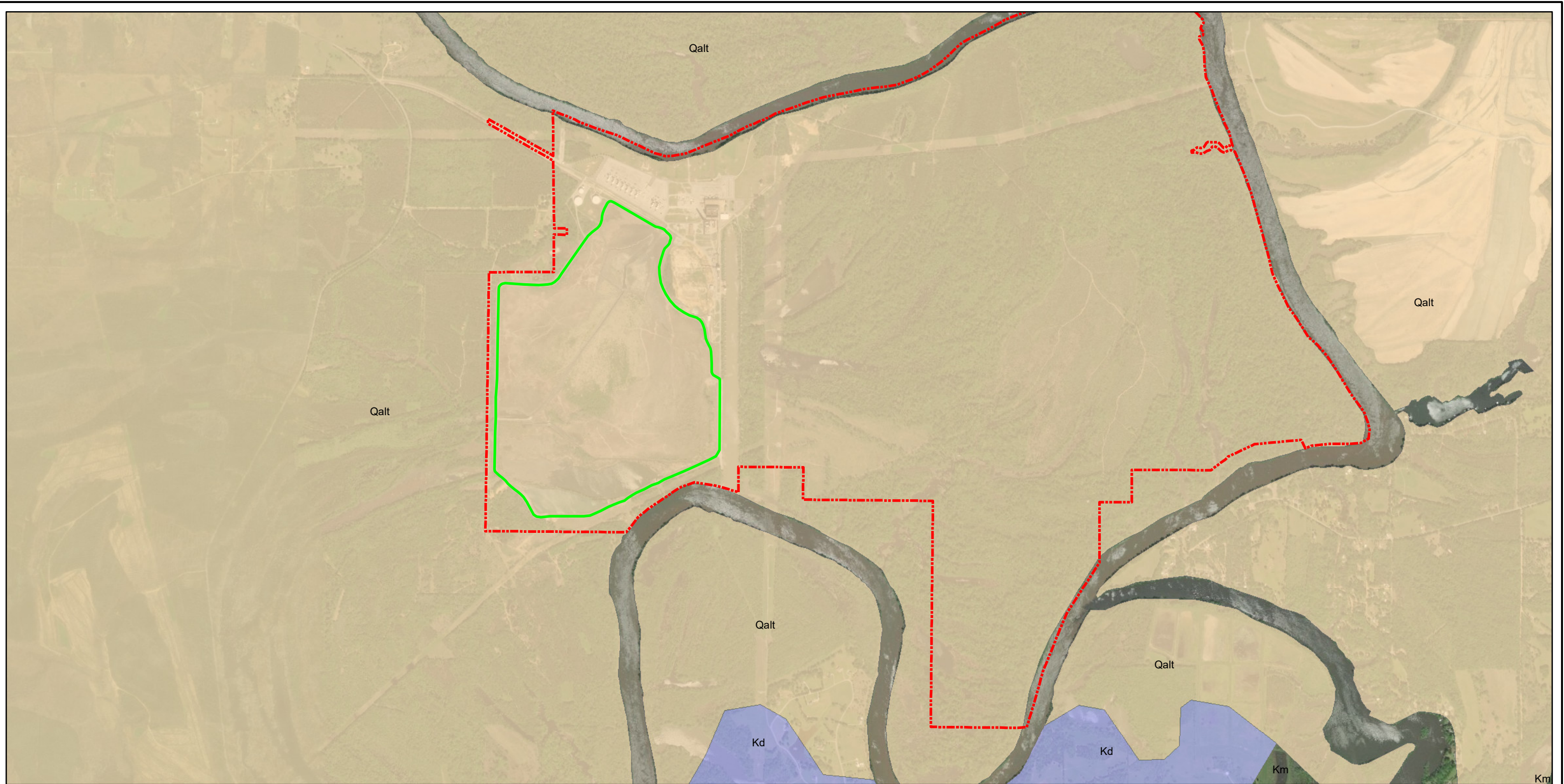
**Southern Company Generation
Earth Science and Environmental Engineering**

FOR

**FIGURE 1
SITE LOCATION MAP
PLANT GREENE COUNTY ASH POND**

Alabama Power Company

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:24k		FIGURE 1	1		



Legend

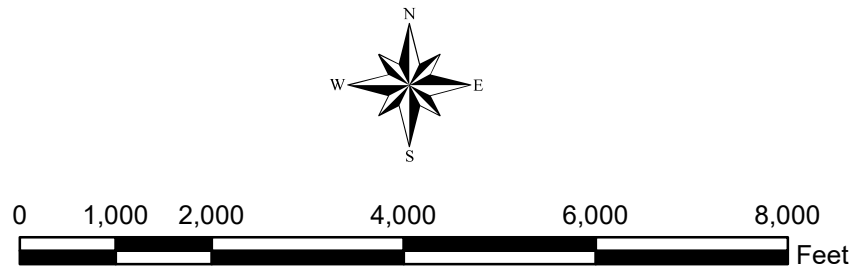
Ash Pond Boundary

Property Boundary (Approximate)

Geologic Unit

Alluvial, coastal, and low terrace deposits (Qalt)

Demopolis Chalk (Kd)



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FIGURE 2
SITE GEOLOGIC MAP
PLANT GREENE COUNTY ASH POND





Southern Company Generation
Earth Science and Environmental Engineering

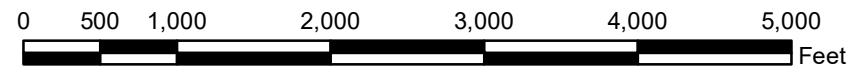
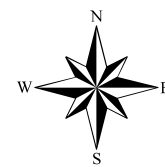
FOR

Alabama Power Company					
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:24k		FIGURE 2	1		



Legend

-  In Network Well
-  In Network Well - Abandoned
-  Property Boundary (Approximate)
-  Ash Pond Boundary



NOTE: NAVD88 indicates North American Vertical Datum of 1988.

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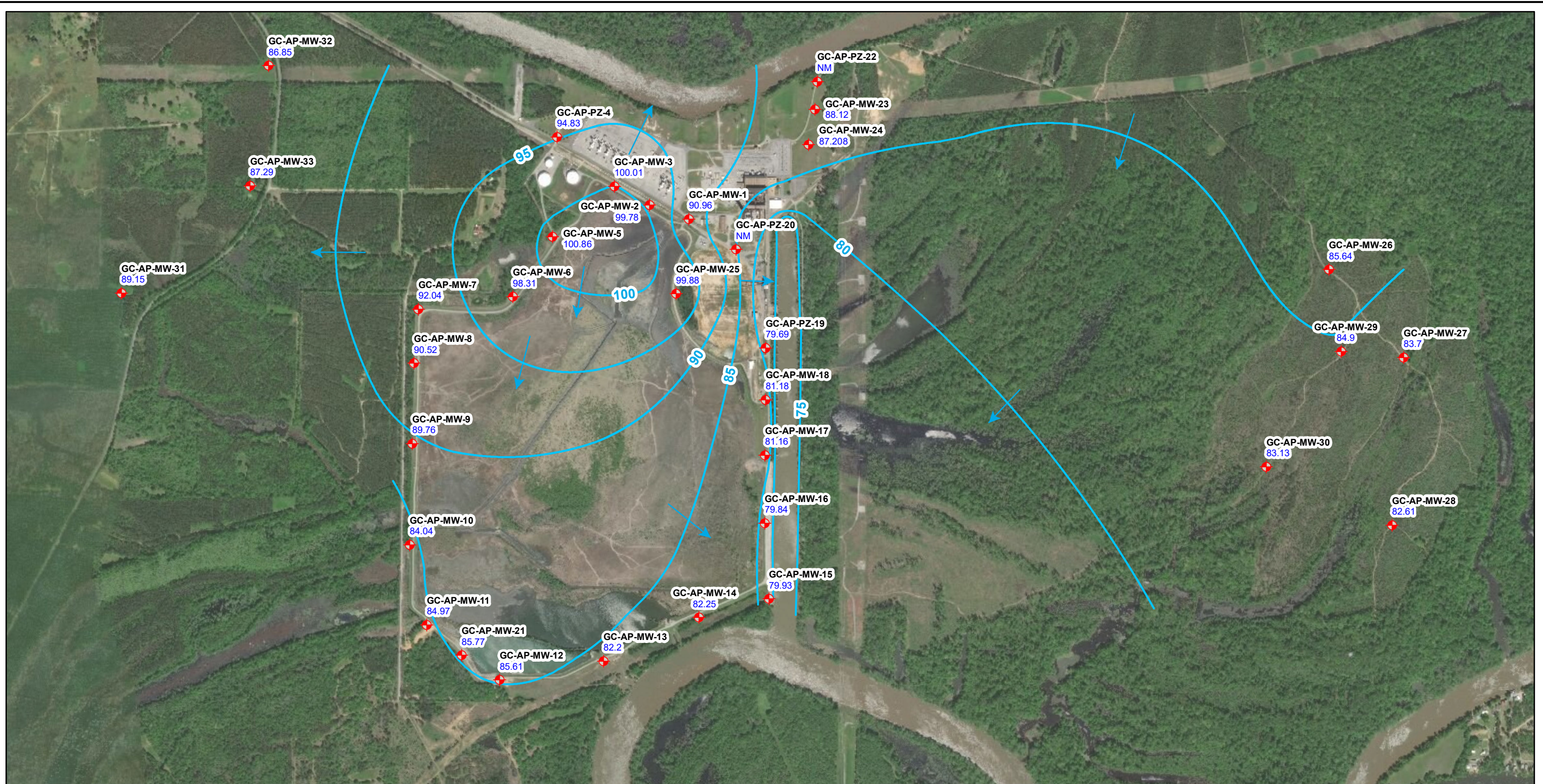
FIGURE 3
MONITORING WELL LOCATION MAP
PLANT GREENE COUNTY ASH POND

Southern Company Generation
Earth Science and Environmental Engineering

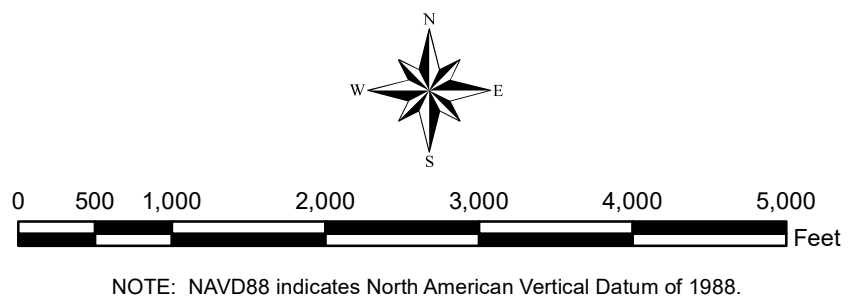
FOR

Alabama Power Company

SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:15k		FIGURE 3	1		



Legend		GN-AP-MW-1	Well ID
	Monitoring Well	90.96	Groundwater Elevation
	Potentiometric Surface Contour (ft NAVD88)		
	Approximate Groundwater Flow Direction		



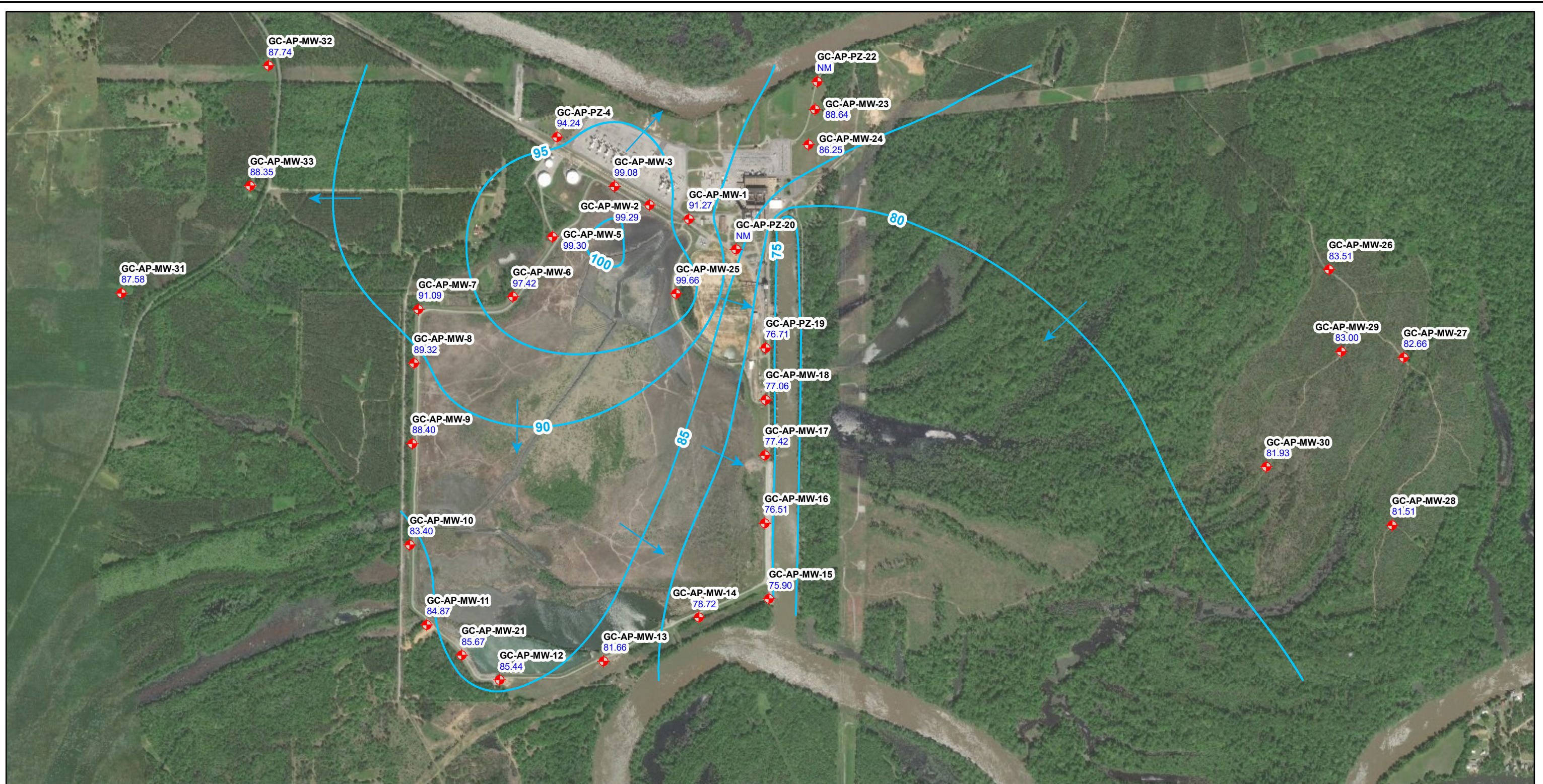
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FIGURE 4
POTENTIOMETRIC SURFACE MAP
FEBRUARY 26, 2018
PLANT GREENE COUNTY ASH POND

Southern Company Generation
Earth Science and Environmental Engineering

FOR

Alabama Power Company					
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:15k		FIGURE 4	1		



Legend

- Monitoring Well
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction

Well ID	Groundwater Elevation
GN-AP-MW-1	91.27

0 500 1,000 2,000 3,000 4,000 5,000 Feet

NOTE: NAVD88 indicates North American Vertical Datum of 1988.

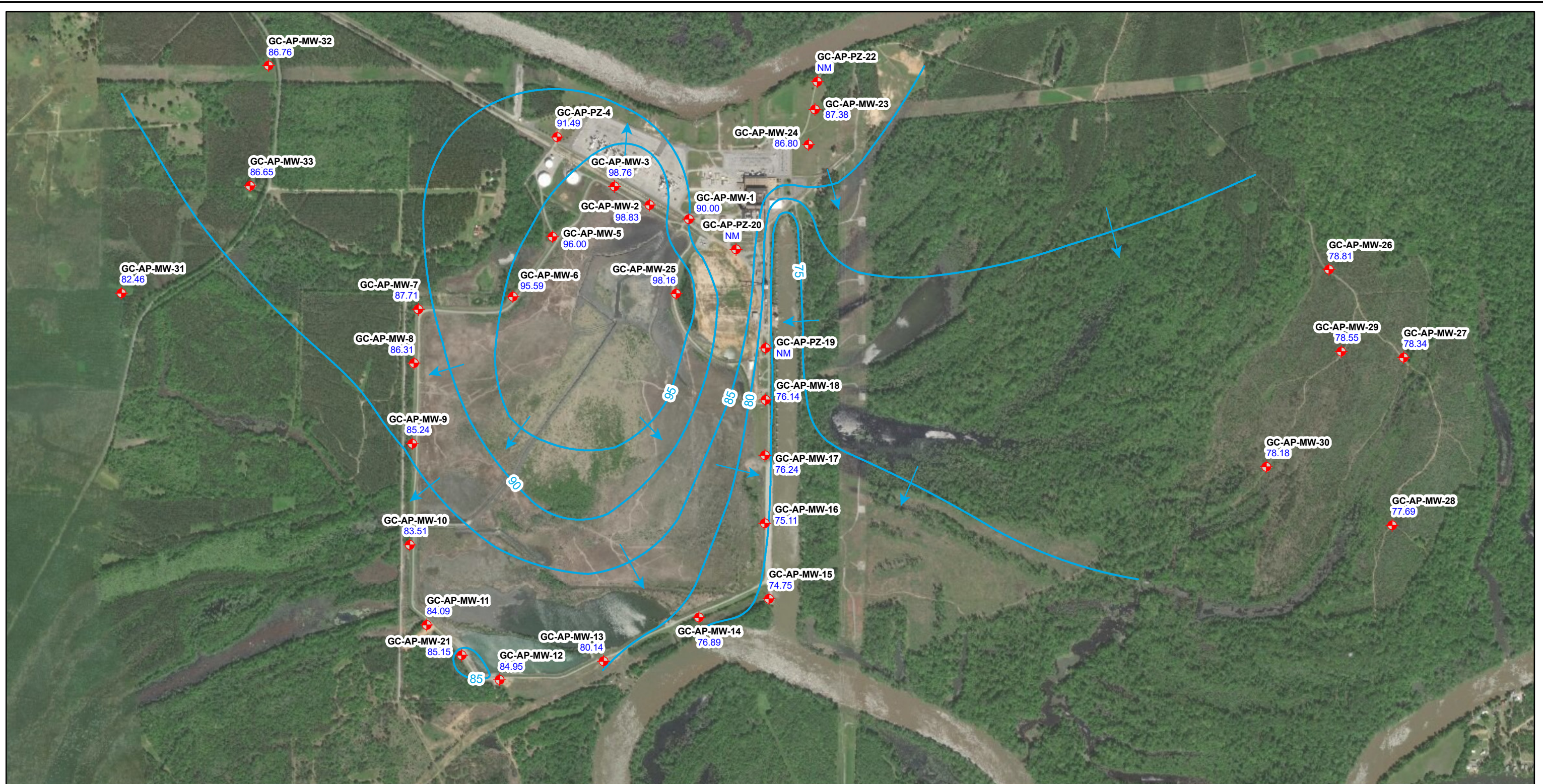
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FIGURE 5
POTENTIOMETRIC SURFACE MAP
 JUNE 4, 2018
PLANT GREENE COUNTY ASH POND

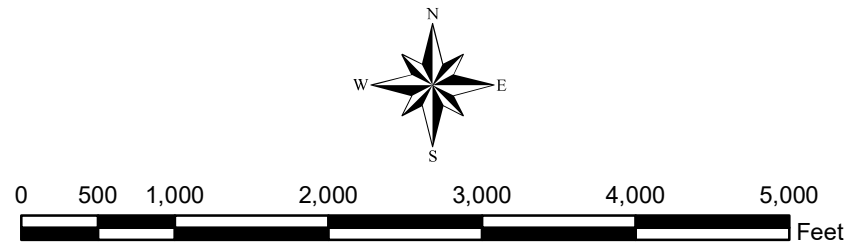
Southern Company Generation
Earth Science and Environmental Engineering

FOR

Alabama Power Company					
SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:15k		FIGURE 5	1		



Legend	
	Monitoring Well
	Potentiometric Surface Contour (ft NAVD88)
	Approximate Groundwater Flow Direction



NOTE:
 1. NAVD88 indicates North American Vertical Datum of 1988.
 2. NM indicates not measured.

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FIGURE 6
 POTENTIOMETRIC SURFACE MAP
 NOVEMBER 5, 2018
 PLANT GREENE COUNTY ASH POND

Southern Company Generation
 Earth Science and Environmental Engineering

FOR

Alabama Power Company

SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:15k		FIGURE 6	1		

Appendix A

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

Assessment 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).

Suspected iron bacteria present in wells MW-17 and MW-5 when pumping was initiated. Orange coloration disappeared after further pumping.

While opening the well cap for sampling at MW-30, the sampler observed all the pea gravel inside the protective casing fall through the bottom of the protective casing into a suspected void. The pea gravel could no longer be seen by the sampler. The well was sampled as usual and no turbidity or indicator parameter differences were observed.

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) 664-6032 or 6171
FAX (205) 257-1654

Analytical Report



Sample Group : WMWGREAP_1139
Project/Site : Greene County Ash Pond
Demopolis, AL 36732
For : Southern Company Services
42 Inverness Center Parkway
Birmingham, AL 35242
Attention : Dustin Brooks & Greg Dyer
Released By : Sarah Copeland
sgcopela@southernco.com
(205) 664-6121

The following data has been reviewed and approved by:

Quality Control: Sarah
Copeland

Digitally signed by Sarah Copeland
DN: cn=Sarah Copeland, o, ou,
email=sgcopela@southernco.com,
c=US
Date: 2018.03.23 10:42:46 -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: 2018.03.23 15:03:23 -05'00'

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

Case Narrative



Fluoride

Greene County Ash Pond

WMWGREAP_1139

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 samples were outsourced to Test America, Pensacola for analysis. Listed below is the job narrative provided by Test America.

Job Narrative
400-150328-1
General Chemistry

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with analytical batch 389030 was outside control limits: (400-150328-A-9 DU). The associated Laboratory Control Sample (LCS) met acceptance criteria.



Metals ICP

Greene County Ash Pond

WMWGREAP_1139

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY05360	20180306AK	WMWGREAP_1139
AY05361	20180306AK	WMWGREAP_1139
AY05362	20180306AK	WMWGREAP_1139
AY05363	20180306AK	WMWGREAP_1139
AY05364	20180306AK	WMWGREAP_1139
AY05365	20180306AK	WMWGREAP_1139
AY05366	20180306AK	WMWGREAP_1139
AY05367	20180306AK	WMWGREAP_1139
AY05368	20180306AK	WMWGREAP_1139
AY05369	20180306AK	WMWGREAP_1139
AY05370	20180306BK	WMWGREAP_1139
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AY05385	20180306CK	WMWGREAP_1139
AY05386	20180306CK	WMWGREAP_1139
AY05387	20180306CK	WMWGREAP_1139
AY05388	20180306CK	WMWGREAP_1139
AY05389	20180306CK	WMWGREAP_1139
AY05390	20180306DK	WMWGREAP_1139
AY05391	20180306DK	WMWGREAP_1139
AY05392	20180306DK	WMWGREAP_1139
AY05393	20180306DK	WMWGREAP_1139



AY05394 20180306DK WMWGREAP_1139
AY05395 20180306DK WMWGREAP_1139

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 passed.
- 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 spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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 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. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects.
 8. The raw data results include results corrected for dilution.



Metals ICPMS

Greene County Ash Pond

WMWGREAP_1139

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY05360	614456	WMWGREAP_1139
AY05361	614456	WMWGREAP_1139
AY05362	614456	WMWGREAP_1139
AY05363	614456	WMWGREAP_1139
AY05364	614456	WMWGREAP_1139
AY05365	614456	WMWGREAP_1139
AY05366	614456	WMWGREAP_1139
AY05367	614456	WMWGREAP_1139
AY05368	614456	WMWGREAP_1139
AY05369	614456	WMWGREAP_1139
AY05370	614457	WMWGREAP_1139
AY05371	614457	WMWGREAP_1139
AY05372	614457	WMWGREAP_1139
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AY05388	614458	WMWGREAP_1139
AY05389	614458	WMWGREAP_1139
AY05390	614459	WMWGREAP_1139
AY05391	614459	WMWGREAP_1139
AY05392	614459	WMWGREAP_1139
AY05393	614459	WMWGREAP_1139



AY05394 614459 WMWGREAP_1139
AY05395 614459 WMWGREAP_1139

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 at a dilution of 1 to 5 to compensate for any matrix effects.
 8. The raw data results are shown with dilution factors included.



Mercury

Greene County Ash Pond

WMWGREAP_1139

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY05360	614565	WMWGREAP_1139
AY05361	614565	WMWGREAP_1139
AY05362	614565	WMWGREAP_1139
AY05363	614565	WMWGREAP_1139
AY05364	614565	WMWGREAP_1139
AY05365	614565	WMWGREAP_1139
AY05366	614565	WMWGREAP_1139
AY05367	614565	WMWGREAP_1139
AY05368	614565	WMWGREAP_1139
AY05369	614565	WMWGREAP_1139
AY05370	614566	WMWGREAP_1139
AY05371	614566	WMWGREAP_1139
AY05372	614566	WMWGREAP_1139
AY05373	614566	WMWGREAP_1139
AY05374	614566	WMWGREAP_1139
AY05375	614566	WMWGREAP_1139
AY05376	614566	WMWGREAP_1139
AY05377	614566	WMWGREAP_1139
AY05378	614566	WMWGREAP_1139
AY05379	614566	WMWGREAP_1139
AY05380	614567	WMWGREAP_1139
AY05381	614567	WMWGREAP_1139
AY05382	614567	WMWGREAP_1139
AY05383	614567	WMWGREAP_1139
AY05384	614567	WMWGREAP_1139
AY05385	614567	WMWGREAP_1139
AY05386	614567	WMWGREAP_1139
AY05387	614567	WMWGREAP_1139
AY05388	614567	WMWGREAP_1139
AY05389	614567	WMWGREAP_1139
AY05390	614568	WMWGREAP_1139
AY05391	614568	WMWGREAP_1139
AY05392	614568	WMWGREAP_1139
AY05393	614568	WMWGREAP_1139



AY05394	614568	WMWGREAP_1139
AY05395	614568	WMWGREAP_1139

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.

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY05360

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.0201	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0398	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0652	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00206	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.070	mg/L

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY05360

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY05369	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY05360

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS		Rec		Prec	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY05361

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.0106	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0292	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00924	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.080	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY05361

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
				Limit	Spike					Rec	Limit		
AY05369	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY05361

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY05362

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.00699	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0989	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00442	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.090	mg/L

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.

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY05362

Sample	Analysis	Units	MB	MB			MS	MSD	LCS		Rec		Prec	Limit
				Limit	Spike	MS			Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY05362

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY05363

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.101	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00281	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY05363

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AY05369	Thallium, Total	mg/L	0.0000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY05363

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY05364

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0287	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.080	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY05364

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY05364

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-23 Dup

Laboratory ID Number: AY05365

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0285	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.080	mg/L

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-23 Dup

Laboratory ID Number: AY05365

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.0000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-23 Dup

Laboratory ID Number: AY05365

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY05366

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0135	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.040	mg/L

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY05366

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY05366

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05367

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05367

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.0000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05367

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY05368

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.425	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.269	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00471	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.113	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00420	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.230	mg/L

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY05368

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY05368

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY05369

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0463	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	J 0.0201	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.220	mg/L

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.

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY05369

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY05369	Thallium, Total	mg/L	0.0000799	0.00044	0.10	0.0966	0.101	0.0997	0.085 to 0.115	96.6	70 to 130	3.98	20	
AY05369	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.0981	0.102	0.101	0.085 to 0.115	98.1	70 to 130	3.66	20	
AY05369	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0958	0.0997	0.0980	0.085 to 0.115	95.8	70 to 130	3.93	20	
AY05369	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.0959	0.101	0.0982	0.085 to 0.115	95.9	70 to 130	4.73	20	
AY05369	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0910	0.0961	0.0966	0.085 to 0.115	91.0	70 to 130	5.41	20	
AY05369	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.134	0.139	0.0957	0.085 to 0.115	88.0	70 to 130	3.51	20	
AY05369	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.0959	0.0984	0.104	0.085 to 0.115	95.9	70 to 130	2.55	20	
AY05369	Mercury, Total by CVAA	mg/L	0.0000213	0.0005	0.004	0.00370	0.00370	0.00388	0.0034 to 0.0046	92.4	70 to 130	0.108	20	
AY05369	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.0965	0.0994	0.101	0.085 to 0.115	96.5	70 to 130	2.91	20	
AY05369	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.0953	0.101	0.102	0.085 to 0.115	95.3	70 to 130	5.79	20	
AY05369	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.102	0.107	0.103	0.085 to 0.115	102	70 to 130	5.06	20	
AY05369	Lithium, Total	mg/L	-0.0000867	0.022	0.20	0.239	0.238	0.193	0.17 to 0.23	110	70 to 130	0.417	20	
AY05369	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.101	0.105	0.101	0.085 to 0.115	101	70 to 130	3.86	20	

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY05369

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY05370

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0669	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.080	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY05370

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY05370

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY05371

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0808	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00698	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	J 0.0309	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.110	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY05371

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY05371

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY05372

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.00946	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.118	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0130	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	J 0.0349	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.190	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY05372

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20	
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20	
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20	
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20	
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20	
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20	
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20	
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20	
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20	
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20	
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20	
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20	
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20	

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY05372

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY05373

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.0146	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.172	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0148	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.111	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0110	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.260	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY05373

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY05373

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY05374

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.00733	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0718	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0438	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.110	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00962	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.140	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY05374

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY05374

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-11 Dup

Laboratory ID Number: AY05375

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.00748	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0719	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0458	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.109	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00996	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.140	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-11 Dup

Laboratory ID Number: AY05375

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115		100	70 to 130	2.66	20
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115		101	70 to 130	2.19	20
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115		111	70 to 130	6.29	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115		101	70 to 130	2.04	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115		90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115		99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115		104	70 to 130	4.04	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115		100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046		97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115		105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115		100	70 to 130	1.64	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115		95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23		101	70 to 130	0.159	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-11 Dup

Laboratory ID Number: AY05375

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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.

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY05376

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0376	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.0594	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0643	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.20	mg/L

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY05376

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20	
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20	
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20	
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20	
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20	
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20	
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20	
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20	
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20	
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20	
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20	
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20	
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY05376

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05377

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05377

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20	
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20	
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20	
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20	
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20	
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20	
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20	
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20	
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20	
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20	
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20	
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20	
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20	

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05377

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS				Limit			

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 28-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY05378

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0197	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	J 0.000656	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.0786	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0903	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.190	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY05378

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY05378

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY05379

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	J 0.00278	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0984	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	J 0.00199	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/7/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.0738	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0346	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00826	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/14/2018	SM 4500 F_C		1	0.032	0.1	0.140	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY05379

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AY05379	Beryllium, Total	mg/L	0.0000130	0.00132	0.10	0.111	0.104	0.104	0.085 to 0.115	111	70 to 130	6.29	20
AY05379	Thallium, Total	mg/L	0.00000799	0.00044	0.10	0.101	0.103	0.0997	0.085 to 0.115	101	70 to 130	2.04	20
AY05379	Arsenic, Total	mg/L	0.0000104	0.0022	0.10	0.104	0.106	0.101	0.085 to 0.115	101	70 to 130	2.19	20
AY05379	Antimony, Total	mg/L	0.0000875	0.00132	0.10	0.0971	0.101	0.0966	0.085 to 0.115	95.1	70 to 130	3.45	20
AY05379	Lithium, Total	mg/L	-0.000118	0.022	0.20	0.276	0.275	0.191	0.17 to 0.23	101	70 to 130	0.159	20
AY05379	Cadmium, Total	mg/L	0.00000237	0.00066	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.87	20
AY05379	Mercury, Total by CVAA	mg/L	0.0000163	0.0005	0.004	0.00389	0.00386	0.00391	0.0034 to 0.0046	97.2	70 to 130	0.627	20
AY05379	Molybdenum, Total	mg/L	0.0000197	0.0044	0.10	0.139	0.142	0.101	0.085 to 0.115	105	70 to 130	2.21	20
AY05379	Selenium, Total	mg/L	0.0000908	0.0044	0.10	0.109	0.110	0.101	0.085 to 0.115	100	70 to 130	1.64	20
AY05379	Barium, Total	mg/L	0.00000923	0.0044	0.10	0.189	0.197	0.0957	0.085 to 0.115	90.4	70 to 130	4.46	20
AY05379	Chromium, Total	mg/L	0.0000213	0.0044	0.10	0.0991	0.101	0.0980	0.085 to 0.115	99.1	70 to 130	1.45	20
AY05379	Cobalt, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.108	0.103	0.085 to 0.115	104	70 to 130	4.04	20
AY05379	Lead, Total	mg/L	0.00000335	0.0022	0.10	0.100	0.103	0.0982	0.085 to 0.115	100	70 to 130	2.66	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY05379

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY05380

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0271	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0157	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.571	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.090	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY05380

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115		101	70 to 130	1.36	20
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115		103	70 to 130	2.34	20
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115		99.9	70 to 130	4.36	20
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115		104	70 to 130	5.36	20
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115		99.0	70 to 130	0.860	20
AY05389	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115		105	70 to 130	0.918	20
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115		98.5	70 to 130	2.79	20
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115		101	70 to 130	1.87	20
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23		106	70 to 130	1.09	20
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046		93.7	70 to 130	3.61	20
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115		98.2	70 to 130	0.712	20
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115		102	70 to 130	0.349	20
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115		107	70 to 130	2.82	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY05380

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS			Rec		Prec	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY05381

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY05381

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115		101	70 to 130	1.36	20
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115		103	70 to 130	2.34	20
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115		104	70 to 130	5.36	20
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115		99.9	70 to 130	4.36	20
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23		106	70 to 130	1.09	20
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046		93.7	70 to 130	3.61	20
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115		98.5	70 to 130	2.79	20
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115		101	70 to 130	1.87	20
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115		98.2	70 to 130	0.712	20
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115		102	70 to 130	0.349	20
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115		107	70 to 130	2.82	20
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115		99.0	70 to 130	0.860	20
AY05389	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115		105	70 to 130	0.918	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY05381

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec
								Duplicate	LCS			Limit	Limit		Limit

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY05382

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0383	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY05382

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115	104	70 to 130	5.36	20	
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115	99.9	70 to 130	4.36	20	
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115	103	70 to 130	2.34	20	
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23	106	70 to 130	1.09	20	
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046	93.7	70 to 130	3.61	20	
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115	98.5	70 to 130	2.79	20	
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115	101	70 to 130	1.87	20	
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115	98.2	70 to 130	0.712	20	
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.349	20	
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115	107	70 to 130	2.82	20	
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115	99.0	70 to 130	0.860	20	
AY05389	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115	105	70 to 130	0.918	20	
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115	101	70 to 130	1.36	20	

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY05382

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY05383

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0500	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00270	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY05383

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115		101	70 to 130	1.36	20
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115		103	70 to 130	2.34	20
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115		104	70 to 130	5.36	20
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115		99.9	70 to 130	4.36	20
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115		99.0	70 to 130	0.860	20
AY05389	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115		105	70 to 130	0.918	20
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115		98.2	70 to 130	0.712	20
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115		102	70 to 130	0.349	20
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115		107	70 to 130	2.82	20
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23		106	70 to 130	1.09	20
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046		93.7	70 to 130	3.61	20
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115		98.5	70 to 130	2.79	20
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115		101	70 to 130	1.87	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY05383

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY05384

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.312	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	J 0.000752	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY05384

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115	103	70 to 130	2.34	20	
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115	104	70 to 130	5.36	20	
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115	101	70 to 130	1.36	20	
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115	99.9	70 to 130	4.36	20	
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23	106	70 to 130	1.09	20	
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046	93.7	70 to 130	3.61	20	
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115	98.2	70 to 130	0.712	20	
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.349	20	
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115	107	70 to 130	2.82	20	
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115	99.0	70 to 130	0.860	20	
AY05389	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115	105	70 to 130	0.918	20	
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115	98.5	70 to 130	2.79	20	
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115	101	70 to 130	1.87	20	

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY05384

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY05385

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0463	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY05385

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115		101	70 to 130	1.36	20
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115		103	70 to 130	2.34	20
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115		104	70 to 130	5.36	20
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115		99.9	70 to 130	4.36	20
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23		106	70 to 130	1.09	20
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046		93.7	70 to 130	3.61	20
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115		98.2	70 to 130	0.712	20
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115		102	70 to 130	0.349	20
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115		107	70 to 130	2.82	20
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115		99.0	70 to 130	0.860	20
AY05389	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115		105	70 to 130	0.918	20
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115		98.5	70 to 130	2.79	20
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115		101	70 to 130	1.87	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY05385

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY05386

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0386	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	J 0.00147	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00278	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.080	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY05386

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115	103	70 to 130	2.34	20	
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115	104	70 to 130	5.36	20	
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115	101	70 to 130	1.36	20	
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115	99.9	70 to 130	4.36	20	
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115	99.0	70 to 130	0.860	20	
AY05389	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115	105	70 to 130	0.918	20	
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23	106	70 to 130	1.09	20	
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046	93.7	70 to 130	3.61	20	
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115	98.5	70 to 130	2.79	20	
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115	101	70 to 130	1.87	20	
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115	98.2	70 to 130	0.712	20	
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.349	20	
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115	107	70 to 130	2.82	20	

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY05386

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY05387

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0231	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY05387

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115	99.9	70 to 130	4.36	20	
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115	103	70 to 130	2.34	20	
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115	101	70 to 130	1.36	20	
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115	104	70 to 130	5.36	20	
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115	98.5	70 to 130	2.79	20	
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115	101	70 to 130	1.87	20	
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23	106	70 to 130	1.09	20	
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046	93.7	70 to 130	3.61	20	
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115	98.2	70 to 130	0.712	20	
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.349	20	
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115	107	70 to 130	2.82	20	
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115	99.0	70 to 130	0.860	20	
AY05389	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115	105	70 to 130	0.918	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY05387

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY05388

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0856	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	J 0.070	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY05388

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115	103	70 to 130	2.34	20	
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115	99.9	70 to 130	4.36	20	
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115	101	70 to 130	1.36	20	
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115	104	70 to 130	5.36	20	
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115	98.5	70 to 130	2.79	20	
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115	101	70 to 130	1.87	20	
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115	98.2	70 to 130	0.712	20	
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.349	20	
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115	107	70 to 130	2.82	20	
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23	106	70 to 130	1.09	20	
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046	93.7	70 to 130	3.61	20	
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115	99.0	70 to 130	0.860	20	
AY05389	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115	105	70 to 130	0.918	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY05388

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS					

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY05389

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.0265	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0908	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0160	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.562	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0121	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.130	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY05389

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05389	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.101	0.103	0.0978	0.085 to 0.115		101	70 to 130	1.36	20
AY05389	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.104	0.0982	0.105	0.085 to 0.115		104	70 to 130	5.36	20
AY05389	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.130	0.133	0.100	0.085 to 0.115		103	70 to 130	2.34	20
AY05389	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.0999	0.104	0.100	0.085 to 0.115		99.9	70 to 130	4.36	20
AY05389	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0990	0.0998	0.0969	0.085 to 0.115		99.0	70 to 130	0.860	20
AY05389	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.121	0.122	0.102	0.085 to 0.115		105	70 to 130	0.918	20
AY05389	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.189	0.190	0.0946	0.085 to 0.115		98.2	70 to 130	0.712	20
AY05389	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.102	0.102	0.102	0.085 to 0.115		102	70 to 130	0.349	20
AY05389	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.119	0.122	0.0998	0.085 to 0.115		107	70 to 130	2.82	20
AY05389	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0985	0.101	0.0974	0.085 to 0.115		98.5	70 to 130	2.79	20
AY05389	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.101	0.102	0.100	0.085 to 0.115		101	70 to 130	1.87	20
AY05389	Lithium, Total	mg/L	-0.0000225	0.022	0.20	0.774	0.783	0.192	0.17 to 0.23		106	70 to 130	1.09	20
AY05389	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00375	0.00389	0.00370	0.0034 to 0.0046		93.7	70 to 130	3.61	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY05389

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 28-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY05390

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.532	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.199	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0251	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.730	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0957	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.580	mg/L

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY05390

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY05395	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.104	0.104	0.0998	0.085 to 0.115	104	70 to 130	0.0613	20	
AY05395	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.0983	0.0972	0.0946	0.085 to 0.115	98.3	70 to 130	1.16	20	
AY05395	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.103	0.105	0.102	0.085 to 0.115	103	70 to 130	1.92	20	
AY05395	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.710	20	
AY05395	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.108	0.104	0.105	0.085 to 0.115	108	70 to 130	3.48	20	
AY05395	Mercury, Total by CVAA	mg/L	0.0000103	0.0005	0.004	0.00400	0.00391	0.00384	0.0034 to 0.0046	99.9	70 to 130	2.15	20	
AY05395	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0984	0.0997	0.0974	0.085 to 0.115	98.4	70 to 130	1.28	20	
AY05395	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.100	0.103	0.100	0.085 to 0.115	100	70 to 130	2.23	20	
AY05395	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.101	0.102	0.102	0.085 to 0.115	101	70 to 130	1.03	20	
AY05395	Lithium, Total	mg/L	0.0000523	0.022	0.20	0.196	0.198	0.193	0.17 to 0.23	98.2	70 to 130	0.803	20	
AY05395	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.0990	0.100	0.100	0.085 to 0.115	99.0	70 to 130	1.34	20	
AY05395	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0954	0.0975	0.0969	0.085 to 0.115	95.4	70 to 130	2.18	20	
AY05395	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.0987	0.100	0.0978	0.085 to 0.115	98.7	70 to 130	1.50	20	

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.

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY05390

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY05391

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.0852	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0595	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0140	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.544	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	J 0.000321	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.230	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY05391

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY05395	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.104	0.104	0.0998	0.085 to 0.115	104	70 to 130	0.0613	20	
AY05395	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.103	0.105	0.102	0.085 to 0.115	103	70 to 130	1.92	20	
AY05395	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.0983	0.0972	0.0946	0.085 to 0.115	98.3	70 to 130	1.16	20	
AY05395	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.101	0.102	0.102	0.085 to 0.115	101	70 to 130	1.03	20	
AY05395	Lithium, Total	mg/L	0.0000523	0.022	0.20	0.196	0.198	0.193	0.17 to 0.23	98.2	70 to 130	0.803	20	
AY05395	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.0990	0.100	0.100	0.085 to 0.115	99.0	70 to 130	1.34	20	
AY05395	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0954	0.0975	0.0969	0.085 to 0.115	95.4	70 to 130	2.18	20	
AY05395	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.0987	0.100	0.0978	0.085 to 0.115	98.7	70 to 130	1.50	20	
AY05395	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0984	0.0997	0.0974	0.085 to 0.115	98.4	70 to 130	1.28	20	
AY05395	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.100	0.103	0.100	0.085 to 0.115	100	70 to 130	2.23	20	
AY05395	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.710	20	
AY05395	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.108	0.104	0.105	0.085 to 0.115	108	70 to 130	3.48	20	
AY05395	Mercury, Total by CVAA	mg/L	0.0000103	0.0005	0.004	0.00400	0.00391	0.00384	0.0034 to 0.0046	99.9	70 to 130	2.15	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY05391

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY05392

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	0.0630	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.143	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0136	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	0.343	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	0.170	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY05392

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05395	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.0983	0.0972	0.0946	0.085 to 0.115	98.3	70 to 130	1.16	20	
AY05395	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.104	0.104	0.0998	0.085 to 0.115	104	70 to 130	0.0613	20	
AY05395	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.103	0.105	0.102	0.085 to 0.115	103	70 to 130	1.92	20	
AY05395	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0954	0.0975	0.0969	0.085 to 0.115	95.4	70 to 130	2.18	20	
AY05395	Lead, Total	mg/L	-0.00000296	0.0022	0.10	0.0987	0.100	0.0978	0.085 to 0.115	98.7	70 to 130	1.50	20	
AY05395	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.710	20	
AY05395	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.108	0.104	0.105	0.085 to 0.115	108	70 to 130	3.48	20	
AY05395	Mercury, Total by CVAA	mg/L	0.0000103	0.0005	0.004	0.00400	0.00391	0.00384	0.0034 to 0.0046	99.9	70 to 130	2.15	20	
AY05395	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.101	0.102	0.102	0.085 to 0.115	101	70 to 130	1.03	20	
AY05395	Lithium, Total	mg/L	0.0000523	0.022	0.20	0.196	0.198	0.193	0.17 to 0.23	98.2	70 to 130	0.803	20	
AY05395	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.0990	0.100	0.100	0.085 to 0.115	99.0	70 to 130	1.34	20	
AY05395	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0984	0.0997	0.0974	0.085 to 0.115	98.4	70 to 130	1.28	20	
AY05395	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.100	0.103	0.100	0.085 to 0.115	100	70 to 130	2.23	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY05392

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 28-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY05393

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0958	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	J 0.00771	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY05393

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05395	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.0983	0.0972	0.0946	0.085 to 0.115	98.3	70 to 130	1.16	20	
AY05395	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.104	0.104	0.0998	0.085 to 0.115	104	70 to 130	0.0613	20	
AY05395	Cobalt, Total	mg/L	0.00000873	0.0044	0.10	0.103	0.105	0.102	0.085 to 0.115	103	70 to 130	1.92	20	
AY05395	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0954	0.0975	0.0969	0.085 to 0.115	95.4	70 to 130	2.18	20	
AY05395	Lead, Total	mg/L	-0.00000296	0.0022	0.10	0.0987	0.100	0.0978	0.085 to 0.115	98.7	70 to 130	1.50	20	
AY05395	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0984	0.0997	0.0974	0.085 to 0.115	98.4	70 to 130	1.28	20	
AY05395	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.100	0.103	0.100	0.085 to 0.115	100	70 to 130	2.23	20	
AY05395	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.101	0.102	0.102	0.085 to 0.115	101	70 to 130	1.03	20	
AY05395	Lithium, Total	mg/L	0.0000523	0.022	0.20	0.196	0.198	0.193	0.17 to 0.23	98.2	70 to 130	0.803	20	
AY05395	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.0990	0.100	0.100	0.085 to 0.115	99.0	70 to 130	1.34	20	
AY05395	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.710	20	
AY05395	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.108	0.104	0.105	0.085 to 0.115	108	70 to 130	3.48	20	
AY05395	Mercury, Total by CVAA	mg/L	0.0000103	0.0005	0.004	0.00400	0.00391	0.00384	0.0034 to 0.0046	99.9	70 to 130	2.15	20	

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Comments: Test America, Pensacola NELAP ID: E81010

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



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY05393

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	-----	--------	-----	-----	-------	-----	-------	------	-------

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
Sample Date: 27-Feb-18
Customer ID:
Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-30 Dup

Laboratory ID Number: AY05394

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	0.0386	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/6/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-30 Dup

Laboratory ID Number: AY05394

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AY05395	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.0983	0.0972	0.0946	0.085 to 0.115	98.3	70 to 130	1.16	20	
AY05395	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.104	0.104	0.0998	0.085 to 0.115	104	70 to 130	0.0613	20	
AY05395	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.101	0.102	0.102	0.085 to 0.115	101	70 to 130	1.03	20	
AY05395	Lithium, Total	mg/L	0.0000523	0.022	0.20	0.196	0.198	0.193	0.17 to 0.23	98.2	70 to 130	0.803	20	
AY05395	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.0990	0.100	0.100	0.085 to 0.115	99.0	70 to 130	1.34	20	
AY05395	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0954	0.0975	0.0969	0.085 to 0.115	95.4	70 to 130	2.18	20	
AY05395	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.0987	0.100	0.0978	0.085 to 0.115	98.7	70 to 130	1.50	20	
AY05395	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.103	0.105	0.102	0.085 to 0.115	103	70 to 130	1.92	20	
AY05395	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.710	20	
AY05395	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.108	0.104	0.105	0.085 to 0.115	108	70 to 130	3.48	20	
AY05395	Mercury, Total by CVAA	mg/L	0.0000103	0.0005	0.004	0.00400	0.00391	0.00384	0.0034 to 0.0046	99.9	70 to 130	2.15	20	
AY05395	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0984	0.0997	0.0974	0.085 to 0.115	98.4	70 to 130	1.28	20	
AY05395	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.100	0.103	0.100	0.085 to 0.115	100	70 to 130	2.23	20	

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 27-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond - MW-30 Dup

Laboratory ID Number: AY05394

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Limit	Prec	Limit
							Duplicate	LCS						

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Expiration: June 30, 2018

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05395

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/8/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/6/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/5/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Fluoride, Total, by Test America	TA	3/14/2018	SM 4500 F_C		1	0.032	0.1	U <0.032	mg/L

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05395

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY05395	Barium, Total	mg/L	0.00000312	0.0044	0.10	0.0983	0.0972	0.0946	0.085 to 0.115		98.3	70 to 130	1.16	20
AY05395	Cobalt, Total	mg/L	0.000000873	0.0044	0.10	0.103	0.105	0.102	0.085 to 0.115		103	70 to 130	1.92	20
AY05395	Molybdenum, Total	mg/L	0.00000939	0.0044	0.10	0.104	0.104	0.0998	0.085 to 0.115		104	70 to 130	0.0613	20
AY05395	Arsenic, Total	mg/L	0.00000734	0.0022	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130	0.710	20
AY05395	Beryllium, Total	mg/L	0.0000137	0.00132	0.10	0.108	0.104	0.105	0.085 to 0.115		108	70 to 130	3.48	20
AY05395	Mercury, Total by CVAA	mg/L	0.0000103	0.0005	0.004	0.00400	0.00391	0.00384	0.0034 to 0.0046		99.9	70 to 130	2.15	20
AY05395	Antimony, Total	mg/L	0.0000518	0.00132	0.10	0.0954	0.0975	0.0969	0.085 to 0.115		95.4	70 to 130	2.18	20
AY05395	Lead, Total	mg/L	-0.000000296	0.0022	0.10	0.0987	0.100	0.0978	0.085 to 0.115		98.7	70 to 130	1.50	20
AY05395	Cadmium, Total	mg/L	0.00000381	0.00066	0.10	0.101	0.102	0.102	0.085 to 0.115		101	70 to 130	1.03	20
AY05395	Lithium, Total	mg/L	0.0000523	0.022	0.20	0.196	0.198	0.193	0.17 to 0.23		98.2	70 to 130	0.803	20
AY05395	Thallium, Total	mg/L	0.00000274	0.00044	0.10	0.0990	0.100	0.100	0.085 to 0.115		99.0	70 to 130	1.34	20
AY05395	Chromium, Total	mg/L	0.0000113	0.0044	0.10	0.0984	0.0997	0.0974	0.085 to 0.115		98.4	70 to 130	1.28	20
AY05395	Selenium, Total	mg/L	0.0000712	0.0044	0.10	0.100	0.103	0.100	0.085 to 0.115		100	70 to 130	2.23	20

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Laboratory certification ID: E571114

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Comments: Test America, Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 28-Feb-18
 Customer ID:
 Delivery Date: 01-Mar-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY05395

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LCS	Limit	Rec	Prec
							Duplicate	LCS		Limit	Prec

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

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.
E	Estimated reported value exceeded calibration range.
J	Reported value is an estimate because concentration is less than reporting limit.
N	Organic constituents tentatively identified. Confirmation is needed.
R	Matrix spike recovery is out of range.
U	Compound was analyzed, but not detected.
P	Precision is out of range.
C	Analyte was verified by re-analysis.
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.
L	Check standard is outside of the required specification limit.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
F	Water Field Group (WFG) qualifier; see comments for more information



Chain of Custody
Groundwater
 APC General Testing Laboratory
 General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/28/2018 16:20

Requested Complete Date	Routine
Site Representative	Jason Arledge
Collector	Nick Pitts

Results To	Dustin Brooks, Greg Dyer
Requested By	Greg Dyer
Location	Greene Ash Pond

Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (250mL): Anions
Comments	There is no temperature preservation requirement for the analyses requested. Fluoride outsourced to Test America, Pensacola.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	02/27/2018	10:03	3	Groundwater		AY05360
MW-2	02/27/2018	11:22	3	Groundwater		AY05361
MW-3	02/27/2018	12:26	3	Groundwater		AY05362
MW-24	02/27/2018	13:32	3	Groundwater		AY05363
MW-23	02/27/2018	14:35	3	Groundwater		AY05364
MW-23 Dup	02/27/2018	14:35	3	Sample Duplicate		AY05365
MW-32	02/27/2018	16:05	3	Groundwater		AY05366
FB-3	02/27/2018	16:15	3	Field Blank		AY05367

Relinquished By	Received By	Date/Time
		02/28/2018 09:38
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2018.02.28 16:48:04 -0600</small>	02/28/2018 16:48

SmarTroll ID	4696-23443-3-2
Turbidity ID	4677-23342-4-1

All metals and radiological bottles have pH < 2

Cooler Temp	NA
Thermometer ID	NA
pH Strip ID	5881-30152-10-6



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/28/2018 16:20

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Ben Rothschadl	Location	Greene Ash Pond
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (250mL): Anions		
Comments	There is no temperature preservation requirement for the analyses requested. Fluoride outsourced to Test America, Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	02/27/2018	09:29	3	Groundwater		AY05368
MW-6	02/27/2018	10:25	3	Groundwater		AY05369
MW-7	02/27/2018	11:29	3	Groundwater		AY05370
MW-8	02/27/2018	12:30	3	Groundwater		AY05371
MW-9	02/27/2018	13:35	3	Groundwater		AY05372
MW-10	02/27/2018	14:35	3	Groundwater		AY05373
MW-11	02/27/2018	15:37	3	Groundwater		AY05374
MW-11 DUP	02/27/2018	15:37	3	Sample Duplicate		AY05375
MW-21	02/28/2018	09:59	3	Groundwater		AY05376
FB-2	02/28/2018	10:30	3	Field Blank		AY05377
MW-12	02/28/2018	10:50	3	Groundwater		AY05378
MW-13	02/28/2018	11:41	3	Groundwater		AY05379
MW-15	02/28/2018	12:36	3	Groundwater		AY05380
EB-1	02/28/2018	12:50	3	Equipment Blank		AY05381

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopella@southernco.com, c=US Date: 2018.02.28 16:51:28 -06'00'</small>	02/28/2018 16:51

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
		NA
		Thermometer ID
		NA
		pH Strip ID
		5881-30152-10-6



Chain of Custody
Groundwater
 APC General Testing Laboratory
 General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/28/2018 16:05

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
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (250mL): Anions		
Comments	There is no temperature preservation requirement for the analyses requested. Fluoride outsourced to Test America, Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-30	02/27/2018	09:37	3	Groundwater		AY05382
MW-29	02/27/2018	10:31	3	Groundwater		AY05383
MW-28	02/27/2018	11:26	3	Groundwater		AY05384
MW-27	02/27/2018	12:13	3	Groundwater		AY05385
MW-26	02/27/2018	13:04	3	Groundwater		AY05386
MW-31	02/27/2018	14:26	3	Groundwater		AY05387
MW-33	02/27/2018	15:08	3	Groundwater		AY05388
MW-14	02/27/2018	16:27	3	Groundwater		AY05389
MW-17	02/28/2018	09:20	3	Groundwater		AY05390
MW-16	02/28/2018	10:40	3	Groundwater		AY05391
MW-18	02/28/2018	11:25	3	Groundwater		AY05392
MW-25	02/28/2018	12:18	3	Groundwater		AY05393
MW-30DUP	02/27/2018	09:37	3	Sample Duplicate		AY05394
FB-1	02/28/2018	11:16	3	Field Blank		AY05395

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.02.28 16:55:03 -06'00'</small>	02/28/2018 16:55

SmarTroll ID	5141-26150-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp
		NA
		Thermometer ID
		NA
		pH Strip ID
		5881-30152-10-6



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/28/2018 16:20

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Nick Pitts	Location	Greene Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	There is no temperature preservation requirement for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	02/27/2018	10:03	1	Groundwater		AY05396
MW-2	02/27/2018	11:22	1	Groundwater		AY05397
MW-3	02/27/2018	12:26	1	Groundwater		AY05398
MW-24	02/27/2018	13:32	1	Groundwater		AY05399
MW-23	02/27/2018	14:35	1	Groundwater		AY05400
MW-23 Dup	02/27/2018	14:35	1	Sample Duplicate		AY05401
MW-32	02/27/2018	16:05	1	Groundwater		AY05402
FB-3	02/27/2018	16:15	1	Field Blank		AY05403

Relinquished By	Received By	Date/Time
		02/28/2018 09:40
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2018.02.28 16:49:40 -0600</small>	02/28/2018 16:49

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp	NA
		Thermometer ID	NA
		pH Strip ID	5881-30152-10-6



Chain of Custody
Groundwater
 APC General Testing Laboratory
 General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/28/2018 16:20

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Ben Rothschadl	Location	Greene Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	Radium Duplicate Collected at MW-8. There is no temperature preservation requirement for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	02/27/2018	09:29	1	Groundwater		AY05404
MW-6	02/27/2018	10:25	1	Groundwater		AY05405
MW-7	02/27/2018	11:29	1	Groundwater		AY05406
MW-8	02/27/2018	12:30	3	Groundwater		AY05407
MW-9	02/27/2018	13:35	1	Groundwater		AY05408
MW-10	02/27/2018	14:35	1	Groundwater		AY05409
MW-11	02/27/2018	15:37	1	Groundwater		AY05410
MW-11 DUP	02/27/2018	15:37	1	Sample Duplicate		AY05411
MW-21	02/28/2018	09:59	1	Groundwater		AY05412
FB-2	02/28/2018	10:30	1	Field Blank		AY05413
MW-12	02/28/2018	10:50	1	Groundwater		AY05414
MW-13	02/28/2018	11:41	1	Groundwater		AY05415
MW-15	02/28/2018	12:36	1	Groundwater		AY05416
EB-1	02/28/2018	12:50	1	Equipment Blank		AY05417

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.02.28 16:52:44 -06'00'</small>	02/28/2018 16:52

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
		NA
		Thermometer ID
		NA
		pH Strip ID
		5881-30152-10-6



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/28/2018 16:03

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
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	Radium Duplicate sampled at MW-29. There is no temperature preservation requirement for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-30	02/27/2018	09:37	1	Groundwater		AY05418
MW-29	02/27/2018	10:31	3	Groundwater		AY05419
MW-28	02/27/2018	11:26	1	Groundwater		AY05420
MW-27	02/27/2018	12:13	1	Groundwater		AY05421
MW-26	02/27/2018	13:04	1	Groundwater		AY05422
MW-31	02/27/2018	14:26	1	Groundwater		AY05423
MW-33	02/27/2018	15:08	1	Groundwater		AY05424
MW-14	02/27/2018	16:27	1	Groundwater		AY05425
MW-17	02/28/2018	09:20	1	Groundwater		AY05426
MW-16	02/28/2018	10:40	1	Groundwater		AY05427
MW-18	02/28/2018	11:25	1	Groundwater		AY05428
MW-25	02/28/2018	12:18	1	Groundwater		AY05429
MW-30DUP	02/27/2018	09:37	1	Sample Duplicate		AY05430
FB-1	02/28/2018	11:16	1	Field Blank		AY05431

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.02.28 16:56:18 -06'00'</small>	02/28/2018 16:56

SmarTroll ID	5141-26150-1-1	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp	NA
		Thermometer ID	NA
		pH Strip ID	5881-30152-10-6

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-150328-1

TestAmerica SDG: Greene County Ash Pond 1139

Client Project/Site: CCR Plant Greene

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

3/14/2018 5:34:31 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Job ID: 400-150328-1

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-150328-1**

General Chemistry

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with analytical batch 389030 was outside control limits: (400-150328-A-9 DU). The associated Laboratory Control Sample (LCS) met acceptance criteria.

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Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05360 MW-1

Lab Sample ID: 400-150328-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.070	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05361 MW-2

Lab Sample ID: 400-150328-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05362 MW-3

Lab Sample ID: 400-150328-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.090	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05363 MW-24

Lab Sample ID: 400-150328-4

No Detections.

Client Sample ID: AY05364 MW-23

Lab Sample ID: 400-150328-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05365 MW-23 DUP

Lab Sample ID: 400-150328-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05366 MW-32

Lab Sample ID: 400-150328-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05367 FB-3

Lab Sample ID: 400-150328-8

No Detections.

Client Sample ID: AY05368 MW-5

Lab Sample ID: 400-150328-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.23		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05369 MW-6

Lab Sample ID: 400-150328-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.22		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05370 MW-7

Lab Sample ID: 400-150328-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05371 MW-8

Lab Sample ID: 400-150328-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05372 MW-9

Lab Sample ID: 400-150328-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05373 MW-10

Lab Sample ID: 400-150328-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.26		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05374 MW-11

Lab Sample ID: 400-150328-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05375 MW-11 DUP

Lab Sample ID: 400-150328-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05376 MW-21

Lab Sample ID: 400-150328-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.20		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05377 FB-2

Lab Sample ID: 400-150328-18

No Detections.

Client Sample ID: AY05378 MW-12

Lab Sample ID: 400-150328-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05379 MW-13

Lab Sample ID: 400-150328-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05380 MW-15

Lab Sample ID: 400-150328-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.090	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05381 EB-1

Lab Sample ID: 400-150328-22

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05382 MW-30

Lab Sample ID: 400-150328-23

No Detections.

Client Sample ID: AY05383 MW-29

Lab Sample ID: 400-150328-24

No Detections.

Client Sample ID: AY05384 MW-28

Lab Sample ID: 400-150328-25

No Detections.

Client Sample ID: AY05385 MW-27

Lab Sample ID: 400-150328-26

No Detections.

Client Sample ID: AY05386 MW-26

Lab Sample ID: 400-150328-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05387 MW-31

Lab Sample ID: 400-150328-28

No Detections.

Client Sample ID: AY05388 MW-33

Lab Sample ID: 400-150328-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.070	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05389 MW-14

Lab Sample ID: 400-150328-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05390 MW-17

Lab Sample ID: 400-150328-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.58		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05391 MW-16

Lab Sample ID: 400-150328-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.23		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05392 MW-18

Lab Sample ID: 400-150328-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.17		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY05393 MW-25

Lab Sample ID: 400-150328-34

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05394 MW-30 DUP

Lab Sample ID: 400-150328-35

No Detections.

Client Sample ID: AY05395 FB-1

Lab Sample ID: 400-150328-36

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Method	Method Description	Protocol	Laboratory
SM 4500 F C	Fluoride	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-150328-1	AY05360 MW-1	Water	02/27/18 10:03	03/02/18 16:40
400-150328-2	AY05361 MW-2	Water	02/27/18 11:22	03/02/18 16:40
400-150328-3	AY05362 MW-3	Water	02/27/18 12:26	03/02/18 16:40
400-150328-4	AY05363 MW-24	Water	02/27/18 13:32	03/02/18 16:40
400-150328-5	AY05364 MW-23	Water	02/27/18 14:35	03/02/18 16:40
400-150328-6	AY05365 MW-23 DUP	Water	02/27/18 14:35	03/02/18 16:40
400-150328-7	AY05366 MW-32	Water	02/27/18 16:05	03/02/18 16:40
400-150328-8	AY05367 FB-3	Water	02/27/18 16:15	03/02/18 16:40
400-150328-9	AY05368 MW-5	Water	02/27/18 09:29	03/02/18 16:40
400-150328-10	AY05369 MW-6	Water	02/27/18 10:25	03/02/18 16:40
400-150328-11	AY05370 MW-7	Water	02/27/18 11:29	03/02/18 16:40
400-150328-12	AY05371 MW-8	Water	02/27/18 12:30	03/02/18 16:40
400-150328-13	AY05372 MW-9	Water	02/27/18 13:35	03/02/18 16:40
400-150328-14	AY05373 MW-10	Water	02/27/18 14:35	03/02/18 16:40
400-150328-15	AY05374 MW-11	Water	02/27/18 15:37	03/02/18 16:40
400-150328-16	AY05375 MW-11 DUP	Water	02/27/18 15:37	03/02/18 16:40
400-150328-17	AY05376 MW-21	Water	02/28/18 09:59	03/02/18 16:40
400-150328-18	AY05377 FB-2	Water	02/28/18 10:30	03/02/18 16:40
400-150328-19	AY05378 MW-12	Water	02/28/18 10:50	03/02/18 16:40
400-150328-20	AY05379 MW-13	Water	02/28/18 11:41	03/02/18 16:40
400-150328-21	AY05380 MW-15	Water	02/28/18 12:36	03/02/18 16:40
400-150328-22	AY05381 EB-1	Water	02/28/18 12:50	03/02/18 16:40
400-150328-23	AY05382 MW-30	Water	02/27/18 09:37	03/02/18 16:40
400-150328-24	AY05383 MW-29	Water	02/27/18 10:31	03/02/18 16:40
400-150328-25	AY05384 MW-28	Water	02/27/18 11:26	03/02/18 16:40
400-150328-26	AY05385 MW-27	Water	02/27/18 12:13	03/02/18 16:40
400-150328-27	AY05386 MW-26	Water	02/27/18 13:04	03/02/18 16:40
400-150328-28	AY05387 MW-31	Water	02/27/18 14:26	03/02/18 16:40
400-150328-29	AY05388 MW-33	Water	02/27/18 15:08	03/02/18 16:40
400-150328-30	AY05389 MW-14	Water	02/27/18 16:27	03/02/18 16:40
400-150328-31	AY05390 MW-17	Water	02/28/18 09:20	03/02/18 16:40
400-150328-32	AY05391 MW-16	Water	02/28/18 10:40	03/02/18 16:40
400-150328-33	AY05392 MW-18	Water	02/28/18 11:25	03/02/18 16:40
400-150328-34	AY05393 MW-25	Water	02/28/18 12:18	03/02/18 16:40
400-150328-35	AY05394 MW-30 DUP	Water	02/27/18 09:37	03/02/18 16:40
400-150328-36	AY05395 FB-1	Water	02/28/18 11:16	03/02/18 16:40

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05360 MW-1

Date Collected: 02/27/18 10:03

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.070	J	0.10	0.032	mg/L	-		03/06/18 12:53	1

Client Sample ID: AY05361 MW-2

Date Collected: 02/27/18 11:22

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.080	J	0.10	0.032	mg/L	-		03/06/18 12:56	1

Client Sample ID: AY05362 MW-3

Date Collected: 02/27/18 12:26

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.090	J	0.10	0.032	mg/L	-		03/06/18 13:00	1

Client Sample ID: AY05363 MW-24

Date Collected: 02/27/18 13:32

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L	-		03/06/18 13:04	1

Client Sample ID: AY05364 MW-23

Date Collected: 02/27/18 14:35

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.080	J	0.10	0.032	mg/L	-		03/06/18 13:08	1

Client Sample ID: AY05365 MW-23 DUP

Date Collected: 02/27/18 14:35

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.080	J	0.10	0.032	mg/L	-		03/06/18 13:10	1

Client Sample ID: AY05366 MW-32

Date Collected: 02/27/18 16:05

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.040	J	0.10	0.032	mg/L	-		03/06/18 13:13	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05367 FB-3

Date Collected: 02/27/18 16:15

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 13:33	1

Client Sample ID: AY05368 MW-5

Date Collected: 02/27/18 09:29

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.23		0.10	0.032	mg/L			03/06/18 13:25	1

Client Sample ID: AY05369 MW-6

Date Collected: 02/27/18 10:25

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-10

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.22		0.10	0.032	mg/L			03/06/18 15:32	1

Client Sample ID: AY05370 MW-7

Date Collected: 02/27/18 11:29

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-11

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.080	J	0.10	0.032	mg/L			03/06/18 13:41	1

Client Sample ID: AY05371 MW-8

Date Collected: 02/27/18 12:30

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-12

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.11		0.10	0.032	mg/L			03/06/18 13:44	1

Client Sample ID: AY05372 MW-9

Date Collected: 02/27/18 13:35

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-13

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.19		0.10	0.032	mg/L			03/06/18 13:46	1

Client Sample ID: AY05373 MW-10

Date Collected: 02/27/18 14:35

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-14

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.26		0.10	0.032	mg/L			03/06/18 13:50	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05374 MW-11

Date Collected: 02/27/18 15:37

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14		0.10	0.032	mg/L			03/06/18 13:52	1

Client Sample ID: AY05375 MW-11 DUP

Date Collected: 02/27/18 15:37

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-16

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14		0.10	0.032	mg/L			03/06/18 13:54	1

Client Sample ID: AY05376 MW-21

Date Collected: 02/28/18 09:59

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-17

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.20		0.10	0.032	mg/L			03/06/18 13:37	1

Client Sample ID: AY05377 FB-2

Date Collected: 02/28/18 10:30

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-18

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 15:44	1

Client Sample ID: AY05378 MW-12

Date Collected: 02/28/18 10:50

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-19

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.19		0.10	0.032	mg/L			03/06/18 15:48	1

Client Sample ID: AY05379 MW-13

Date Collected: 02/28/18 11:41

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-20

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14		0.10	0.032	mg/L			03/14/18 12:07	1

Client Sample ID: AY05380 MW-15

Date Collected: 02/28/18 12:36

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-21

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.090	J	0.10	0.032	mg/L			03/06/18 15:52	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05381 EB-1

Date Collected: 02/28/18 12:50

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-22

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 15:57	1

Client Sample ID: AY05382 MW-30

Date Collected: 02/27/18 09:37

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-23

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 16:01	1

Client Sample ID: AY05383 MW-29

Date Collected: 02/27/18 10:31

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-24

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 16:04	1

Client Sample ID: AY05384 MW-28

Date Collected: 02/27/18 11:26

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-25

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 16:08	1

Client Sample ID: AY05385 MW-27

Date Collected: 02/27/18 12:13

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-26

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 16:20	1

Client Sample ID: AY05386 MW-26

Date Collected: 02/27/18 13:04

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-27

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.080	J	0.10	0.032	mg/L			03/06/18 16:28	1

Client Sample ID: AY05387 MW-31

Date Collected: 02/27/18 14:26

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-28

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 16:33	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05388 MW-33

Date Collected: 02/27/18 15:08

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-29

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.070	J	0.10	0.032	mg/L	-		03/06/18 16:37	1

Client Sample ID: AY05389 MW-14

Date Collected: 02/27/18 16:27

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.13		0.10	0.032	mg/L	-		03/06/18 12:45	1

Client Sample ID: AY05390 MW-17

Date Collected: 02/28/18 09:20

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-31

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.58		0.10	0.032	mg/L	-		03/06/18 16:41	1

Client Sample ID: AY05391 MW-16

Date Collected: 02/28/18 10:40

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-32

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.23		0.10	0.032	mg/L	-		03/06/18 16:44	1

Client Sample ID: AY05392 MW-18

Date Collected: 02/28/18 11:25

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-33

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.17		0.10	0.032	mg/L	-		03/06/18 16:48	1

Client Sample ID: AY05393 MW-25

Date Collected: 02/28/18 12:18

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-34

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L	-		03/06/18 16:52	1

Client Sample ID: AY05394 MW-30 DUP

Date Collected: 02/27/18 09:37

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-35

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L	-		03/06/18 16:55	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05395 FB-1

Lab Sample ID: 400-150328-36

Date Collected: 02/28/18 11:16

Matrix: Water

Date Received: 03/02/18 16:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/14/18 12:40	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
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

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05360 MW-1

Date Collected: 02/27/18 10:03

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 12:53	BAB	TAL PEN

Client Sample ID: AY05361 MW-2

Date Collected: 02/27/18 11:22

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 12:56	BAB	TAL PEN

Client Sample ID: AY05362 MW-3

Date Collected: 02/27/18 12:26

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:00	BAB	TAL PEN

Client Sample ID: AY05363 MW-24

Date Collected: 02/27/18 13:32

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:04	BAB	TAL PEN

Client Sample ID: AY05364 MW-23

Date Collected: 02/27/18 14:35

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:08	BAB	TAL PEN

Client Sample ID: AY05365 MW-23 DUP

Date Collected: 02/27/18 14:35

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150328-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:10	BAB	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05366 MW-32

Lab Sample ID: 400-150328-7

Date Collected: 02/27/18 16:05

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:13	BAB	TAL PEN

Client Sample ID: AY05367 FB-3

Lab Sample ID: 400-150328-8

Date Collected: 02/27/18 16:15

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:33	BAB	TAL PEN

Client Sample ID: AY05368 MW-5

Lab Sample ID: 400-150328-9

Date Collected: 02/27/18 09:29

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:25	BAB	TAL PEN

Client Sample ID: AY05369 MW-6

Lab Sample ID: 400-150328-10

Date Collected: 02/27/18 10:25

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 15:32	BAB	TAL PEN

Client Sample ID: AY05370 MW-7

Lab Sample ID: 400-150328-11

Date Collected: 02/27/18 11:29

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:41	BAB	TAL PEN

Client Sample ID: AY05371 MW-8

Lab Sample ID: 400-150328-12

Date Collected: 02/27/18 12:30

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:44	BAB	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05372 MW-9

Lab Sample ID: 400-150328-13

Date Collected: 02/27/18 13:35

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:46	BAB	TAL PEN

Client Sample ID: AY05373 MW-10

Lab Sample ID: 400-150328-14

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:50	BAB	TAL PEN

Client Sample ID: AY05374 MW-11

Lab Sample ID: 400-150328-15

Date Collected: 02/27/18 15:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:52	BAB	TAL PEN

Client Sample ID: AY05375 MW-11 DUP

Lab Sample ID: 400-150328-16

Date Collected: 02/27/18 15:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:54	BAB	TAL PEN

Client Sample ID: AY05376 MW-21

Lab Sample ID: 400-150328-17

Date Collected: 02/28/18 09:59

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 13:37	BAB	TAL PEN

Client Sample ID: AY05377 FB-2

Lab Sample ID: 400-150328-18

Date Collected: 02/28/18 10:30

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 15:44	BAB	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05378 MW-12

Lab Sample ID: 400-150328-19

Date Collected: 02/28/18 10:50

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 15:48	BAB	TAL PEN

Client Sample ID: AY05379 MW-13

Lab Sample ID: 400-150328-20

Date Collected: 02/28/18 11:41

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	390052	03/14/18 12:07	BAB	TAL PEN

Client Sample ID: AY05380 MW-15

Lab Sample ID: 400-150328-21

Date Collected: 02/28/18 12:36

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 15:52	BAB	TAL PEN

Client Sample ID: AY05381 EB-1

Lab Sample ID: 400-150328-22

Date Collected: 02/28/18 12:50

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 15:57	BAB	TAL PEN

Client Sample ID: AY05382 MW-30

Lab Sample ID: 400-150328-23

Date Collected: 02/27/18 09:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:01	BAB	TAL PEN

Client Sample ID: AY05383 MW-29

Lab Sample ID: 400-150328-24

Date Collected: 02/27/18 10:31

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:04	BAB	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05384 MW-28

Lab Sample ID: 400-150328-25

Date Collected: 02/27/18 11:26

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:08	BAB	TAL PEN

Client Sample ID: AY05385 MW-27

Lab Sample ID: 400-150328-26

Date Collected: 02/27/18 12:13

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:20	BAB	TAL PEN

Client Sample ID: AY05386 MW-26

Lab Sample ID: 400-150328-27

Date Collected: 02/27/18 13:04

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:28	BAB	TAL PEN

Client Sample ID: AY05387 MW-31

Lab Sample ID: 400-150328-28

Date Collected: 02/27/18 14:26

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:33	BAB	TAL PEN

Client Sample ID: AY05388 MW-33

Lab Sample ID: 400-150328-29

Date Collected: 02/27/18 15:08

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:37	BAB	TAL PEN

Client Sample ID: AY05389 MW-14

Lab Sample ID: 400-150328-30

Date Collected: 02/27/18 16:27

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389030	03/06/18 12:45	BAB	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05390 MW-17

Lab Sample ID: 400-150328-31

Date Collected: 02/28/18 09:20

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:41	BAB	TAL PEN

Client Sample ID: AY05391 MW-16

Lab Sample ID: 400-150328-32

Date Collected: 02/28/18 10:40

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:44	BAB	TAL PEN

Client Sample ID: AY05392 MW-18

Lab Sample ID: 400-150328-33

Date Collected: 02/28/18 11:25

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:48	BAB	TAL PEN

Client Sample ID: AY05393 MW-25

Lab Sample ID: 400-150328-34

Date Collected: 02/28/18 12:18

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:52	BAB	TAL PEN

Client Sample ID: AY05394 MW-30 DUP

Lab Sample ID: 400-150328-35

Date Collected: 02/27/18 09:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	389061	03/06/18 16:55	BAB	TAL PEN

Client Sample ID: AY05395 FB-1

Lab Sample ID: 400-150328-36

Date Collected: 02/28/18 11:16

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	390052	03/14/18 12:40	BAB	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

General Chemistry

Analysis Batch: 389030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150328-1	AY05360 MW-1	Total/NA	Water	SM 4500 F C	
400-150328-2	AY05361 MW-2	Total/NA	Water	SM 4500 F C	
400-150328-3	AY05362 MW-3	Total/NA	Water	SM 4500 F C	
400-150328-4	AY05363 MW-24	Total/NA	Water	SM 4500 F C	
400-150328-5	AY05364 MW-23	Total/NA	Water	SM 4500 F C	
400-150328-6	AY05365 MW-23 DUP	Total/NA	Water	SM 4500 F C	
400-150328-7	AY05366 MW-32	Total/NA	Water	SM 4500 F C	
400-150328-8	AY05367 FB-3	Total/NA	Water	SM 4500 F C	
400-150328-9	AY05368 MW-5	Total/NA	Water	SM 4500 F C	
400-150328-11	AY05370 MW-7	Total/NA	Water	SM 4500 F C	
400-150328-12	AY05371 MW-8	Total/NA	Water	SM 4500 F C	
400-150328-13	AY05372 MW-9	Total/NA	Water	SM 4500 F C	
400-150328-14	AY05373 MW-10	Total/NA	Water	SM 4500 F C	
400-150328-15	AY05374 MW-11	Total/NA	Water	SM 4500 F C	
400-150328-16	AY05375 MW-11 DUP	Total/NA	Water	SM 4500 F C	
400-150328-17	AY05376 MW-21	Total/NA	Water	SM 4500 F C	
400-150328-30	AY05389 MW-14	Total/NA	Water	SM 4500 F C	
MB 400-389030/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-389030/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-150328-30 MS	AY05389 MW-14	Total/NA	Water	SM 4500 F C	
400-150328-30 MSD	AY05389 MW-14	Total/NA	Water	SM 4500 F C	
400-150328-9 DU	AY05368 MW-5	Total/NA	Water	SM 4500 F C	

Analysis Batch: 389061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150328-10	AY05369 MW-6	Total/NA	Water	SM 4500 F C	
400-150328-18	AY05377 FB-2	Total/NA	Water	SM 4500 F C	
400-150328-19	AY05378 MW-12	Total/NA	Water	SM 4500 F C	
400-150328-21	AY05380 MW-15	Total/NA	Water	SM 4500 F C	
400-150328-22	AY05381 EB-1	Total/NA	Water	SM 4500 F C	
400-150328-23	AY05382 MW-30	Total/NA	Water	SM 4500 F C	
400-150328-24	AY05383 MW-29	Total/NA	Water	SM 4500 F C	
400-150328-25	AY05384 MW-28	Total/NA	Water	SM 4500 F C	
400-150328-26	AY05385 MW-27	Total/NA	Water	SM 4500 F C	
400-150328-27	AY05386 MW-26	Total/NA	Water	SM 4500 F C	
400-150328-28	AY05387 MW-31	Total/NA	Water	SM 4500 F C	
400-150328-29	AY05388 MW-33	Total/NA	Water	SM 4500 F C	
400-150328-31	AY05390 MW-17	Total/NA	Water	SM 4500 F C	
400-150328-32	AY05391 MW-16	Total/NA	Water	SM 4500 F C	
400-150328-33	AY05392 MW-18	Total/NA	Water	SM 4500 F C	
400-150328-34	AY05393 MW-25	Total/NA	Water	SM 4500 F C	
400-150328-35	AY05394 MW-30 DUP	Total/NA	Water	SM 4500 F C	
MB 400-389061/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-389061/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-150328-10 MS	AY05369 MW-6	Total/NA	Water	SM 4500 F C	
400-150328-10 MSD	AY05369 MW-6	Total/NA	Water	SM 4500 F C	
400-150328-26 DU	AY05385 MW-27	Total/NA	Water	SM 4500 F C	

Analysis Batch: 390052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150328-20	AY05379 MW-13	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
SDG: Greene County Ash Pond 1139

General Chemistry (Continued)

Analysis Batch: 390052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150328-36	AY05395 FB-1	Total/NA	Water	SM 4500 F C	
MB 400-390052/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-390052/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-150328-20 MS	AY05379 MW-13	Total/NA	Water	SM 4500 F C	
400-150328-20 MSD	AY05379 MW-13	Total/NA	Water	SM 4500 F C	
400-150328-36 MS	AY05395 FB-1	Total/NA	Water	SM 4500 F C	
400-150328-36 MSD	AY05395 FB-1	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-389030/3
Matrix: Water
Analysis Batch: 389030

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 12:25	1

Lab Sample ID: LCS 400-389030/4
Matrix: Water
Analysis Batch: 389030

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.94		mg/L		99	90 - 110

Lab Sample ID: 400-150328-30 MS
Matrix: Water
Analysis Batch: 389030

Client Sample ID: AY05389 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.13		1.00	1.17		mg/L		104	75 - 125

Lab Sample ID: 400-150328-30 MSD
Matrix: Water
Analysis Batch: 389030

Client Sample ID: AY05389 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.13		1.00	1.17		mg/L		104	75 - 125	0	4

Lab Sample ID: 400-150328-9 DU
Matrix: Water
Analysis Batch: 389030

Client Sample ID: AY05368 MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.23		0.260	F5	mg/L		12	4

Lab Sample ID: MB 400-389061/3
Matrix: Water
Analysis Batch: 389061

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/06/18 15:12	1

Lab Sample ID: LCS 400-389061/4
Matrix: Water
Analysis Batch: 389061

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.94		mg/L		99	90 - 110

Lab Sample ID: 400-150328-10 MS
Matrix: Water
Analysis Batch: 389061

Client Sample ID: AY05369 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.22		1.00	1.28		mg/L		106	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

Lab Sample ID: 400-150328-10 MSD
Matrix: Water
Analysis Batch: 389061

Client Sample ID: AY05369 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.22		1.00	1.26		mg/L		104	75 - 125	2	4

Lab Sample ID: 400-150328-26 DU
Matrix: Water
Analysis Batch: 389061

Client Sample ID: AY05385 MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Lab Sample ID: MB 400-390052/3
Matrix: Water
Analysis Batch: 390052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/14/18 11:49	1

Lab Sample ID: LCS 400-390052/4
Matrix: Water
Analysis Batch: 390052

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.26		mg/L		107	90 - 110

Lab Sample ID: 400-150328-20 MS
Matrix: Water
Analysis Batch: 390052

Client Sample ID: AY05379 MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.14		1.00	1.26		mg/L		112	75 - 125

Lab Sample ID: 400-150328-20 MSD
Matrix: Water
Analysis Batch: 390052

Client Sample ID: AY05379 MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.14		1.00	1.26		mg/L		112	75 - 125	0	4

Lab Sample ID: 400-150328-36 MS
Matrix: Water
Analysis Batch: 390052

Client Sample ID: AY05395 FB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	1.12		mg/L		112	75 - 125

Lab Sample ID: 400-150328-36 MSD
Matrix: Water
Analysis Batch: 390052

Client Sample ID: AY05395 FB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	1.12		mg/L		112	75 - 125	0	4

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information
 Client Contact: Nick Pitts
 Phone: [Blank]
 Lab PM: Whitmire, Cheyenne R
 E-Mail: cheyenne.whitmire@testamericainc.com

Company: Alabama Power General Test Laboratory
 Address: 744 County Rd 87 GSC #8
 City: Callera
 State, Zip: AL, 35040
 PO #: [Blank]
 WO #: [Blank]
 Email: sgcopela@southernco.com
 Project #: 40007143
 CCR: [Blank]
 Site: Greene County Ash Pond 1139

Carrier Tracking No(s): [Blank]

Analysis Requested

Sample Identification	Sample Date	Sample Time (C=Comp, G=grab)	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-site, etc)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F ₁	SM 4500 Cl ₁	SM 4500 SO ₄ F ₁	Total Number of Containers	Special Instructions/Note:
AY05360	2/27/18	1003	G	Water		X	X				1	MW-1
AY05361	2/27/18	1122	G	Water		X	X				1	MW-2
AY05362	2/27/18	1226	G	Water		X	X				1	MW-3
AY05363	2/27/18	1332	G	Water		X	X				1	MW-24
AY05364	2/27/18	1435	G	Water		X	X				1	MW-23
AY05365	2/27/18	1435	G	Water		X	X				1	MW-23 Dup (Sample Duplicate)
AY05366	2/27/18	1605	G	Water		X	X				1	MW-32
AY05367	2/27/18	1615	G	Water		X	X				1	FB-3 (Field Blank)



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Relinquished by: Sarah Copeland
 Date: 3/1/2018; 1100
 Company: APC

Relinquished by: [Signature]
 Date: 3-2-18 1640
 Company: IA-Pen

Relinquished by: [Signature]
 Date: [Blank]
 Company: [Blank]

Custody Seal No.: Yes No
 Cooler Temperature(s) °C and Other Remarks: [Blank]



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information
 Client Contact: Ben Rothschild
 Phone: Sarah Copeland
 Company: Alabama Power General Test Laboratory
 Address: 744 County Rd 87 GSC #8
 City: Callera
 State, Zip: AL, 35040
 Phone: 205-664-6121 (Tel)
 Email: sgcopela@southernco.com
 Project Name: CCR
 Site: Greene County Ash Pond 1139

Analysis Requested
 Due Date Requested:
 TAT Requested (days): Routine
 PO #:
 WO #:
 Project #: 40007143
 SSO#W:
 Lab PM: Whitmire, Cheyenne R
 E-Mail: cheyenne.whitmire@testamericainc.com
 Carrier Tracking No(s):
 COG No: 400-56525-24537.1
 Page: Page 2 of 3
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Washoil, Tissue, Ash)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F.C.	SM 4500 C.L.E.	SM 4500 S.O. ₄ E.	Total Number of Containers	Special Instructions/Note:
AY05368	2/27/18	0929	G	Water		X	X				1	MW-5
AY05369	2/27/18	1025	G	Water		Y	X				1	MW-6
AY05370	2/27/18	1129	G	Water		X	X				1	MW-7
AY05371	2/27/18	1230	G	Water		X	X				1	MW-8
AY05372	2/27/18	1335	G	Water		X	X				1	MW-9
AY05373	2/27/18	1435	G	Water		X	X				1	MW-10
AY05374	2/27/18	1537	G	Water		X	X				1	MW-11
AY05375	2/27/18	1537	G	Water		X	X				1	MW-11 Dup (Sample Duplicate)
AY05376	2/28/18	959	G	Water		X	X				1	MW-21
AY05377	2/28/18	1030	G	Water		X	X				1	FB-2 (Field Blank)
AY05378	2/28/18	1050	G	Water		X	X				1	MW-12
AY05379	2/28/18	1141	G	Water		Y	X				1	MW-13
AY05380	2/28/18	1236	G	Water		X	X				1	MW-15
AY05381	2/28/18	1250	G	Water		X	X				1	EB-1 (Equipment Blank)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Sarah Copeland Date/Time: 3/12/18, 1100 Company: APC
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No Δ No
 Cooler Temperature(s) °C and Other Remarks:



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information
 Client Contact: Sarah Copeland
 Company: Alabama Power General Test Laboratory
 Address: 744 County Rd 87 GSC #8
 City: Calera
 State, Zip: AL, 35040
 Phone: 205-664-6121(Tel)
 Email: sgcopella@southernco.com
 Project Name: CCR
 Site: Greene County Ash Pond 1139

Sampler: Anthony Goggins
Phone:
Lab PM: Whitmire, Cheyenne R
E-Mail: cheyenne.whitmire@testamericainc.com

Carrier Tracking No(s): 400-56525-24537.1
Page: Page 3 of 3
Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, G=gas)	Preservation Code	Analysis Requested			Special Instructions/Note:
						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	
AY05382	2/27/18	0937	G	Water		X		1	MW-30
AY05383	2/27/18	1031	G	Water		X		1	MW-29
AY05384	2/27/18	1126	G	Water		X		1	MW-28
AY05385	2/27/18	1213	G	Water		X		1	MW-27
AY05386	2/27/18	1304	G	Water		X		1	MW-26
AY05387	2/27/18	1426	G	Water		X		1	MW-31
AY05388	2/27/18	1508	G	Water		X		1	MW-33
AY05389	2/27/18	1627	G	Water		Y		1	MW-14
AY05390	2/28/18	920	G	Water		X		1	MW-17
AY05391	2/28/18	1040	G	Water		X		1	MW-16
AY05392	2/28/18	1125	G	Water		X		1	MW-18
AY05393	2/28/18	1218	G	Water		X		1	MW-25
AY05394	2/27/18	0937	G	Water		X		1	MW-30 Dup (Sample Duplicate)
AY05395	2/28/18	1116	G	Water		Y		1	FB-1 (Field Blank)

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Sarah Copeland
 Date/Time: 3/1/2018: 1100
 Company: APC

Relinquished by: [Signature]
 Date/Time: 3-2-18 1040
 Company: TA-Pen

Relinquished by:
 Date/Time:
 Company:

Custody Seals Intact: Custody Seal No.:
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-150328-1
SDG Number: Greene County Ash Pond 1139

Login Number: 150328
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	N/A	
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 <math><6\text{mm}</math> (1/4").	N/A	
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

TestAmerica Job ID: 400-150328-1
 SDG: Greene County Ash Pond 1139

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-18
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-18
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-150385-1

TestAmerica SDG: Greene County Ash Pond 1139

Client Project/Site: CCR Plant Greene

For:

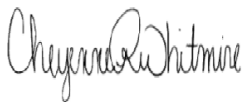
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

4/4/2018 4:57:26 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Job ID: 400-150385-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-150385-1

RAD

Method(s) 9320: Radium-228 Prep Batch 160-355358: The following sample did not meet the radium-228 detection goal due to the lower carrier recoveries (see prep NCM 135194). The results are reported with the MDC achieved. AY05426 MW-17 (400-150385-31)

Method(s) 9320: Radium-228 Prep Batch 160-355344: The following sample exhibited a negative result greater in magnitude than the 3 sigma TPU. This occurrence was evaluated and determined to be random in nature. Sporadic occurrences such as this are statistically expected. No further action is required. (MB 160-355344/23-A)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-355344: The sample aliquot was reduced due to limited available sample volume. AY05396 MW-1 (400-150385-1), AY05397 MW-2 (400-150385-2), AY05398 MW-3 (400-150385-3), AY05399 MW-24 (400-150385-4), AY05400 MW-23 (400-150385-5), AY05401 MW-23 DUP (400-150385-6), AY05402 MW-32 (400-150385-7), AY05403 FB-3 (400-150385-8), AY05404 MW-5 (400-150385-9), AY05405 MW-6 (400-150385-10), AY05406 MW-7 (400-150385-11), AY05407 MW-8 (400-150385-12), AY05407 MW-8 (400-150385-12[DU]), AY05408 MW-9 (400-150385-13), AY05409 MW-10 (400-150385-14), AY05410 MW-11 (400-150385-15), AY05411 MW-11 DUP (400-150385-16), AY05412 MW-21 (400-150385-17), AY05413 FB-2 (400-150385-18), AY05414 MW-12 (400-150385-19) and AY05415 MW-13 (400-150385-20)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-355358: The following sample was spilled during the lead clean-up process. The syringe used split during filtering causing the loss of approximately half of the sample. The sample recovered above the 40% limit, but the lower recovery may cause an elevated MDC. AY05426 MW-17 (400-150385-31)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-355358: The LCS was spiked with 0.2mL of spike rather than the method suggested 0.1mL. The batch was adjusted to reflect the amount added to the LCS. AY05416 MW-15 (400-150385-21), AY05417 EB-1 (400-150385-22), AY05418 MW-30 (400-150385-23), AY05419 MW-29 (400-150385-24), AY05419 MW-29 (400-150385-24[DU]), AY05420 MW-28 (400-150385-25), AY05421 MW-27 (400-150385-26), AY05422 MW-26 (400-150385-27), AY05423 MW-31 (400-150385-28), AY05424 MW-33 (400-150385-29), AY05425 MW-14 (400-150385-30), AY05426 MW-17 (400-150385-31), AY05427 MW-16 (400-150385-32), AY05428 MW-18 (400-150385-33), AY05429 MW-25 (400-150385-34), AY05430 MW-30 DUP (400-150385-35) and AY05431 FB-1 (400-150385-36)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-355353: There is insufficient volume available to run the following samples at the methods required 1L. A reduced aliquot was prepared. AY05416 MW-15 (400-150385-21), AY05417 EB-1 (400-150385-22), AY05418 MW-30 (400-150385-23), AY05419 MW-29 (400-150385-24), AY05419 MW-29 (400-150385-24[DU]), AY05420 MW-28 (400-150385-25), AY05421 MW-27 (400-150385-26), AY05422 MW-26 (400-150385-27), AY05423 MW-31 (400-150385-28), AY05424 MW-33 (400-150385-29), AY05425 MW-14 (400-150385-30), AY05426 MW-17 (400-150385-31), AY05427 MW-16 (400-150385-32), AY05428 MW-18 (400-150385-33), AY05429 MW-25 (400-150385-34), AY05430 MW-30 DUP (400-150385-35) and AY05431 FB-1 (400-150385-36)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-355339: The sample aliquot was reduced due to limited available sample volume. AY05396 MW-1 (400-150385-1), AY05397 MW-2 (400-150385-2), AY05398 MW-3 (400-150385-3), AY05399 MW-24 (400-150385-4), AY05400 MW-23 (400-150385-5), AY05401 MW-23 DUP (400-150385-6), AY05402 MW-32 (400-150385-7), AY05403 FB-3 (400-150385-8), AY05404 MW-5 (400-150385-9), AY05405 MW-6 (400-150385-10), AY05406 MW-7 (400-150385-11), AY05407 MW-8 (400-150385-12), AY05407 MW-8 (400-150385-12[DU]), AY05408 MW-9 (400-150385-13), AY05409 MW-10 (400-150385-14), AY05410 MW-11 (400-150385-15), AY05411 MW-11 DUP (400-150385-16), AY05412 MW-21 (400-150385-17), AY05413 FB-2 (400-150385-18), AY05414 MW-12 (400-150385-19) and AY05415 MW-13 (400-150385-20)

Method(s) PrecSep-21: Radium-226 Prep Batch 160-355353: The following sample was spilled during the lead clean-up process. The syringe used split during filtering causing the loss of approximately half of the sample. The sample recovered above the 40% limit, but the lower recovery may cause an elevated MDC. AY05426 MW-17 (400-150385-31)

Method(s) PrecSep-21: Radium-226 Prep Batch 160-355353: There was insufficient volume to run the following samples at the method required 1L. A reduced aliquot was prepared. AY05416 MW-15 (400-150385-21), AY05417 EB-1 (400-150385-22), AY05418 MW-30 (400-150385-23), AY05419 MW-29 (400-150385-24), AY05419 MW-29 (400-150385-24[DU]), AY05420 MW-28 (400-150385-25), AY05421 MW-27 (400-150385-26), AY05422 MW-26 (400-150385-27), AY05423 MW-31 (400-150385-28), AY05424 MW-33 (400-150385-29), AY05425 MW-14 (400-150385-30), AY05426 MW-17 (400-150385-31), AY05427 MW-16 (400-150385-32), AY05428 MW-18

Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Job ID: 400-150385-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

(400-150385-33), AY05429 MW-25 (400-150385-34), AY05430 MW-30 DUP (400-150385-35) and AY05431 FB-1 (400-150385-36)

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Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

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

Protocol References:

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 = 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

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-150385-1	AY05396 MW-1	Water	02/27/18 10:03	03/02/18 16:40
400-150385-2	AY05397 MW-2	Water	02/27/18 11:22	03/02/18 16:40
400-150385-3	AY05398 MW-3	Water	02/27/18 12:26	03/02/18 16:40
400-150385-4	AY05399 MW-24	Water	02/27/18 13:32	03/02/18 16:40
400-150385-5	AY05400 MW-23	Water	02/27/18 14:35	03/02/18 16:40
400-150385-6	AY05401 MW-23 DUP	Water	02/27/18 14:35	03/02/18 16:40
400-150385-7	AY05402 MW-32	Water	02/27/18 16:05	03/02/18 16:40
400-150385-8	AY05403 FB-3	Water	02/27/18 16:15	03/02/18 16:40
400-150385-9	AY05404 MW-5	Water	02/27/18 09:29	03/02/18 16:40
400-150385-10	AY05405 MW-6	Water	02/27/18 10:25	03/02/18 16:40
400-150385-11	AY05406 MW-7	Water	02/27/18 11:29	03/02/18 16:40
400-150385-12	AY05407 MW-8	Water	02/27/18 12:30	03/02/18 16:40
400-150385-13	AY05408 MW-9	Water	02/27/18 13:35	03/02/18 16:40
400-150385-14	AY05409 MW-10	Water	02/27/18 14:35	03/02/18 16:40
400-150385-15	AY05410 MW-11	Water	02/27/18 15:37	03/02/18 16:40
400-150385-16	AY05411 MW-11 DUP	Water	02/27/18 15:37	03/02/18 16:40
400-150385-17	AY05412 MW-21	Water	02/28/18 09:59	03/02/18 16:40
400-150385-18	AY05413 FB-2	Water	02/28/18 10:30	03/02/18 16:40
400-150385-19	AY05414 MW-12	Water	02/28/18 10:50	03/02/18 16:40
400-150385-20	AY05415 MW-13	Water	02/28/18 11:41	03/02/18 16:40
400-150385-21	AY05416 MW-15	Water	02/28/18 12:36	03/02/18 16:40
400-150385-22	AY05417 EB-1	Water	02/28/18 12:50	03/02/18 16:40
400-150385-23	AY05418 MW-30	Water	02/27/18 09:37	03/02/18 16:40
400-150385-24	AY05419 MW-29	Water	02/27/18 10:31	03/02/18 16:40
400-150385-25	AY05420 MW-28	Water	02/27/18 11:26	03/02/18 16:40
400-150385-26	AY05421 MW-27	Water	02/27/18 12:13	03/02/18 16:40
400-150385-27	AY05422 MW-26	Water	02/27/18 13:04	03/02/18 16:40
400-150385-28	AY05423 MW-31	Water	02/27/18 14:26	03/02/18 16:40
400-150385-29	AY05424 MW-33	Water	02/27/18 15:08	03/02/18 16:40
400-150385-30	AY05425 MW-14	Water	02/27/18 16:27	03/02/18 16:40
400-150385-31	AY05426 MW-17	Water	02/28/18 09:20	03/02/18 16:40
400-150385-32	AY05427 MW-16	Water	02/28/18 10:40	03/02/18 16:40
400-150385-33	AY05428 MW-18	Water	02/28/18 11:25	03/02/18 16:40
400-150385-34	AY05429 MW-25	Water	02/28/18 12:18	03/02/18 16:40
400-150385-35	AY05430 MW-30 DUP	Water	02/27/18 09:37	03/02/18 16:40
400-150385-36	AY05431 FB-1	Water	02/28/18 11:16	03/02/18 16:40

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05396 MW-1

Lab Sample ID: 400-150385-1

Date Collected: 02/27/18 10:03

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.575		0.147	0.155	1.00	0.0848	pCi/L	03/13/18 14:01	04/04/18 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					03/13/18 14:01	04/04/18 06:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.724		0.315	0.322	1.00	0.443	pCi/L	03/13/18 14:33	03/22/18 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					03/13/18 14:33	03/22/18 14:37	1
Y Carrier	91.2		40 - 110					03/13/18 14:33	03/22/18 14:37	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	1.30		0.348	0.357	5.00	0.443	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05397 MW-2

Lab Sample ID: 400-150385-2

Date Collected: 02/27/18 11:22

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.173		0.103	0.104	1.00	0.135	pCi/L	03/13/18 14:01	04/04/18 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/13/18 14:01	04/04/18 06:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.523		0.329	0.333	1.00	0.506	pCi/L	03/13/18 14:33	03/22/18 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/13/18 14:33	03/22/18 14:37	1
Y Carrier	91.2		40 - 110					03/13/18 14:33	03/22/18 14:37	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	0.695		0.345	0.349	5.00	0.506	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05398 MW-3

Lab Sample ID: 400-150385-3

Date Collected: 02/27/18 12:26

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.561		0.149	0.158	1.00	0.102	pCi/L	03/13/18 14:01	04/04/18 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/13/18 14:01	04/04/18 06:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.335	U	0.282	0.284	1.00	0.449	pCi/L	03/13/18 14:33	03/22/18 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/13/18 14:33	03/22/18 14:37	1
Y Carrier	91.2		40 - 110					03/13/18 14:33	03/22/18 14:37	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	0.896		0.319	0.325	5.00	0.449	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05399 MW-24

Lab Sample ID: 400-150385-4

Date Collected: 02/27/18 13:32

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.563		0.156	0.164	1.00	0.124	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/13/18 14:01	04/04/18 06:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.483	U	0.324	0.327	1.00	0.504	pCi/L	03/13/18 14:33	03/22/18 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/13/18 14:33	03/22/18 14:37	1
Y Carrier	92.3		40 - 110					03/13/18 14:33	03/22/18 14:37	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	1.05		0.360	0.366	5.00	0.504	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05400 MW-23

Lab Sample ID: 400-150385-5

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

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	0.0561	0.0561	1.00	0.105	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					03/13/18 14:01	04/04/18 06:12	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	0.300	0.300	1.00	0.495	pCi/L	03/13/18 14:33	03/22/18 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					03/13/18 14:33	03/22/18 14:37	1
Y Carrier	90.8		40 - 110					03/13/18 14:33	03/22/18 14:37	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	0.305	0.305	5.00	0.495	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05401 MW-23 DUP

Lab Sample ID: 400-150385-6

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.144		0.0817	0.0827	1.00	0.0924	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					03/13/18 14:01	04/04/18 06:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.117	U	0.242	0.242	1.00	0.458	pCi/L	03/13/18 14:33	03/22/18 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					03/13/18 14:33	03/22/18 14:38	1
Y Carrier	91.2		40 - 110					03/13/18 14:33	03/22/18 14:38	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	0.0271	U	0.255	0.256	5.00	0.458	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05402 MW-32

Lab Sample ID: 400-150385-7

Date Collected: 02/27/18 16:05

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0709	U	0.0601	0.0604	1.00	0.0823	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/13/18 14:01	04/04/18 06:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.331	U	0.272	0.273	1.00	0.430	pCi/L	03/13/18 14:33	03/22/18 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/13/18 14:33	03/22/18 14:38	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:38	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	0.402	U	0.279	0.280	5.00	0.430	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05403 FB-3

Lab Sample ID: 400-150385-8

Date Collected: 02/27/18 16:15

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0669	U	0.0662	0.0665	1.00	0.0973	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/13/18 14:01	04/04/18 06:12	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	0.235	0.235	1.00	0.404	pCi/L	03/13/18 14:33	03/22/18 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/13/18 14:33	03/22/18 14:38	1
Y Carrier	91.2		40 - 110					03/13/18 14:33	03/22/18 14:38	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	0.181	U	0.244	0.244	5.00	0.404	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05404 MW-5

Lab Sample ID: 400-150385-9

Date Collected: 02/27/18 09:29

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.20		0.212	0.237	1.00	0.121	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					03/13/18 14:01	04/04/18 06:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.686		0.338	0.344	1.00	0.497	pCi/L	03/13/18 14:33	03/22/18 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					03/13/18 14:33	03/22/18 14:38	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:38	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	1.88		0.399	0.418	5.00	0.497	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05405 MW-6

Lab Sample ID: 400-150385-10

Date Collected: 02/27/18 10:25

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.294		0.112	0.115	1.00	0.104	pCi/L	03/13/18 14:01	04/04/18 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					03/13/18 14:01	04/04/18 06:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.149	U	0.242	0.243	1.00	0.465	pCi/L	03/13/18 14:33	03/22/18 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					03/13/18 14:33	03/22/18 14:38	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:38	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	0.146	U	0.267	0.269	5.00	0.465	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05406 MW-7

Lab Sample ID: 400-150385-11

Date Collected: 02/27/18 11:29

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.303		0.113	0.116	1.00	0.103	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					03/13/18 14:01	04/04/18 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.171	U	0.262	0.262	1.00	0.440	pCi/L	03/13/18 14:33	03/22/18 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					03/13/18 14:33	03/22/18 14:38	1
Y Carrier	92.0		40 - 110					03/13/18 14:33	03/22/18 14:38	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	0.475		0.285	0.287	5.00	0.440	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05407 MW-8

Lab Sample ID: 400-150385-12

Date Collected: 02/27/18 12:30

Matrix: Water

Date Received: 03/02/18 16:40

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		0.108	0.111	1.00	0.106	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					03/13/18 14:01	04/04/18 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0493	U	0.237	0.237	1.00	0.420	pCi/L	03/13/18 14:33	03/22/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					03/13/18 14:33	03/22/18 14:39	1
Y Carrier	92.3		40 - 110					03/13/18 14:33	03/22/18 14:39	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	0.314	U	0.260	0.262	5.00	0.420	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05408 MW-9

Lab Sample ID: 400-150385-13

Date Collected: 02/27/18 13:35

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.546		0.148	0.156	1.00	0.108	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					03/13/18 14:01	04/04/18 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.469	U	0.309	0.312	1.00	0.476	pCi/L	03/13/18 14:33	03/22/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					03/13/18 14:33	03/22/18 14:39	1
Y Carrier	92.3		40 - 110					03/13/18 14:33	03/22/18 14:39	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	1.01		0.343	0.349	5.00	0.476	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05409 MW-10

Lab Sample ID: 400-150385-14

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.365		0.127	0.131	1.00	0.125	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/13/18 14:01	04/04/18 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.499		0.272	0.276	1.00	0.396	pCi/L	03/13/18 14:33	03/22/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/13/18 14:33	03/22/18 14:39	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:39	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	0.864		0.300	0.306	5.00	0.396	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05410 MW-11

Lab Sample ID: 400-150385-15

Date Collected: 02/27/18 15:37

Matrix: Water

Date Received: 03/02/18 16:40

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	0.0750	0.0753	1.00	0.112	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/13/18 14:01	04/04/18 06:13	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	0.245	0.245	1.00	0.419	pCi/L	03/13/18 14:33	03/22/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/13/18 14:33	03/22/18 14:39	1
Y Carrier	92.0		40 - 110					03/13/18 14:33	03/22/18 14:39	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	0.214	U	0.256	0.256	5.00	0.419	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05411 MW-11 DUP

Lab Sample ID: 400-150385-16

Date Collected: 02/27/18 15:37

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.154		0.0884	0.0895	1.00	0.106	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/13/18 14:01	04/04/18 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.649		0.359	0.364	1.00	0.543	pCi/L	03/13/18 14:33	03/22/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/13/18 14:33	03/22/18 14:40	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:40	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		0.370	0.375	5.00	0.543	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05412 MW-21

Lab Sample ID: 400-150385-17

Date Collected: 02/28/18 09:59

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.109		0.0761	0.0768	1.00	0.0975	pCi/L	03/13/18 14:01	04/04/18 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					03/13/18 14:01	04/04/18 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.448	U	0.305	0.308	1.00	0.470	pCi/L	03/13/18 14:33	03/22/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					03/13/18 14:33	03/22/18 14:40	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:40	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	0.558		0.314	0.317	5.00	0.470	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05413 FB-2

Lab Sample ID: 400-150385-18

Date Collected: 02/28/18 10:30

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0409	U	0.0595	0.0597	1.00	0.102	pCi/L	03/13/18 14:01	04/04/18 06:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 14:01	04/04/18 06:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.192	U	0.250	0.250	1.00	0.416	pCi/L	03/13/18 14:33	03/22/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 14:33	03/22/18 14:40	1
Y Carrier	90.1		40 - 110					03/13/18 14:33	03/22/18 14:40	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	0.232	U	0.257	0.257	5.00	0.416	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05414 MW-12

Lab Sample ID: 400-150385-19

Date Collected: 02/28/18 10:50

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0675	U	0.0662	0.0665	1.00	0.0998	pCi/L	03/13/18 14:01	04/04/18 06:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/13/18 14:01	04/04/18 06:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0633	U	0.265	0.265	1.00	0.466	pCi/L	03/13/18 14:33	03/22/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/13/18 14:33	03/22/18 14:40	1
Y Carrier	91.6		40 - 110					03/13/18 14:33	03/22/18 14:40	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	0.131	U	0.273	0.273	5.00	0.466	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05415 MW-13

Lab Sample ID: 400-150385-20

Date Collected: 02/28/18 11:41

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0395	U	0.0546	0.0547	1.00	0.0920	pCi/L	03/13/18 14:01	04/04/18 06:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					03/13/18 14:01	04/04/18 06:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00811	U	0.243	0.243	1.00	0.441	pCi/L	03/13/18 14:33	03/22/18 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					03/13/18 14:33	03/22/18 14:41	1
Y Carrier	90.8		40 - 110					03/13/18 14:33	03/22/18 14:41	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	0.0314	U	0.249	0.249	5.00	0.441	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05416 MW-15

Lab Sample ID: 400-150385-21

Date Collected: 02/28/18 12:36

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102		0.0658	0.0664	1.00	0.0787	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.714		0.345	0.351	1.00	0.504	pCi/L	03/13/18 16:31	03/20/18 18:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 16:31	03/20/18 18:12	1
Y Carrier	82.6		40 - 110					03/13/18 16:31	03/20/18 18:12	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	0.815		0.351	0.357	5.00	0.504	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05417 EB-1

Lab Sample ID: 400-150385-22

Date Collected: 02/28/18 12:50

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00252	U	0.0354	0.0354	1.00	0.0854	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.458	U	0.316	0.319	1.00	0.490	pCi/L	03/13/18 16:31	03/20/18 18:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/13/18 16:31	03/20/18 18:12	1
Y Carrier	88.2		40 - 110					03/13/18 16:31	03/20/18 18:12	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	0.455	U	0.318	0.321	5.00	0.490	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05418 MW-30

Lab Sample ID: 400-150385-23

Date Collected: 02/27/18 09:37

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105		0.0712	0.0718	1.00	0.0921	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.230	U	0.285	0.286	1.00	0.473	pCi/L	03/13/18 16:31	03/20/18 18:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 16:31	03/20/18 18:12	1
Y Carrier	91.2		40 - 110					03/13/18 16:31	03/20/18 18:12	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	0.334	U	0.294	0.295	5.00	0.473	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05419 MW-29

Lab Sample ID: 400-150385-24

Date Collected: 02/27/18 10:31

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212		0.0914	0.0934	1.00	0.0873	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.693		0.344	0.349	1.00	0.499	pCi/L	03/13/18 16:31	03/20/18 18:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					03/13/18 16:31	03/20/18 18:12	1
Y Carrier	79.3		40 - 110					03/13/18 16:31	03/20/18 18:12	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	0.905		0.356	0.361	5.00	0.499	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05420 MW-28

Lab Sample ID: 400-150385-25

Date Collected: 02/27/18 11:26

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.415		0.121	0.127	1.00	0.0840	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.661		0.341	0.346	1.00	0.507	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	88.6		40 - 110					03/13/18 16:31	03/20/18 18:13	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	1.08		0.362	0.369	5.00	0.507	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05421 MW-27

Lab Sample ID: 400-150385-26

Date Collected: 02/27/18 12:13

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101		0.0659	0.0665	1.00	0.0795	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.192	U	0.277	0.278	1.00	0.464	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	91.2		40 - 110					03/13/18 16:31	03/20/18 18:13	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	0.293	U	0.285	0.286	5.00	0.464	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05422 MW-26

Lab Sample ID: 400-150385-27

Date Collected: 02/27/18 13:04

Matrix: Water

Date Received: 03/02/18 16:40

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		0.0748	0.0757	1.00	0.0852	pCi/L	03/13/18 15:45	04/04/18 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/13/18 15:45	04/04/18 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442	U	0.298	0.301	1.00	0.461	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	90.1		40 - 110					03/13/18 16:31	03/20/18 18:13	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	0.573		0.307	0.310	5.00	0.461	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05423 MW-31

Lab Sample ID: 400-150385-28

Date Collected: 02/27/18 14:26

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.123		0.0744	0.0752	1.00	0.0880	pCi/L	03/13/18 15:45	04/04/18 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/13/18 15:45	04/04/18 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.77		0.426	0.456	1.00	0.494	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	81.9		40 - 110					03/13/18 16:31	03/20/18 18:13	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	1.89		0.432	0.462	5.00	0.494	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05424 MW-33

Lab Sample ID: 400-150385-29

Date Collected: 02/27/18 15:08

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.565		0.143	0.152	1.00	0.0887	pCi/L	03/13/18 15:45	04/04/18 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 15:45	04/04/18 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.688		0.307	0.313	1.00	0.431	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	85.2		40 - 110					03/13/18 16:31	03/20/18 18:13	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	1.25		0.339	0.348	5.00	0.431	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05425 MW-14

Lab Sample ID: 400-150385-30

Date Collected: 02/27/18 16:27

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.328		0.111	0.115	1.00	0.0851	pCi/L	03/13/18 15:45	04/04/18 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					03/13/18 15:45	04/04/18 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26		0.409	0.425	1.00	0.543	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	81.9		40 - 110					03/13/18 16:31	03/20/18 18:13	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	1.59		0.424	0.440	5.00	0.543	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05426 MW-17

Lab Sample ID: 400-150385-31

Date Collected: 02/28/18 09:20

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.806		0.278	0.288	1.00	0.277	pCi/L	03/13/18 15:45	04/04/18 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.3		40 - 110					03/13/18 15:45	04/04/18 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.18	G	1.57	1.59	1.00	2.28	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.3		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	43.0		40 - 110					03/13/18 16:31	03/20/18 18:13	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	3.99		1.59	1.62	5.00	2.28	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05427 MW-16

Lab Sample ID: 400-150385-32

Date Collected: 02/28/18 10:40

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.374		0.125	0.130	1.00	0.103	pCi/L	03/13/18 15:45	04/04/18 06:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/13/18 15:45	04/04/18 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	0.797		0.346	0.354	1.00	0.490	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	86.0		40 - 110					03/13/18 16:31	03/20/18 18:13	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	1.17		0.368	0.377	5.00	0.490	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05428 MW-18

Lab Sample ID: 400-150385-33

Date Collected: 02/28/18 11:25

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.685		0.165	0.176	1.00	0.116	pCi/L	03/13/18 15:45	04/04/18 06:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/13/18 15:45	04/04/18 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	0.361	U	0.269	0.271	1.00	0.419	pCi/L	03/13/18 16:31	03/20/18 18:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/13/18 16:31	03/20/18 18:13	1
Y Carrier	91.2		40 - 110					03/13/18 16:31	03/20/18 18:13	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	1.05		0.316	0.323	5.00	0.419	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05429 MW-25

Lab Sample ID: 400-150385-34

Date Collected: 02/28/18 12:18

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175		0.0952	0.0965	1.00	0.117	pCi/L	03/13/18 15:45	04/04/18 06:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					03/13/18 15:45	04/04/18 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	-0.0447	U	0.263	0.263	1.00	0.480	pCi/L	03/13/18 16:31	03/20/18 18:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					03/13/18 16:31	03/20/18 18:14	1
Y Carrier	89.0		40 - 110					03/13/18 16:31	03/20/18 18:14	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	0.131	U	0.280	0.280	5.00	0.480	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05430 MW-30 DUP

Lab Sample ID: 400-150385-35

Date Collected: 02/27/18 09:37

Matrix: Water

Date Received: 03/02/18 16:40

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		0.0917	0.0929	1.00	0.109	pCi/L	03/13/18 15:45	04/04/18 06:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/13/18 15:45	04/04/18 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	0.534		0.314	0.317	1.00	0.475	pCi/L	03/13/18 16:31	03/20/18 18:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/13/18 16:31	03/20/18 18:14	1
Y Carrier	89.0		40 - 110					03/13/18 16:31	03/20/18 18:14	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	0.702		0.327	0.330	5.00	0.475	pCi/L		04/04/18 16:12	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05431 FB-1

Lab Sample ID: 400-150385-36

Date Collected: 02/28/18 11:16

Matrix: Water

Date Received: 03/02/18 16:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0285	U	0.0443	0.0443	1.00	0.118	pCi/L	03/13/18 15:45	04/04/18 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 15:45	04/04/18 06:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.35		0.374	0.394	1.00	0.441	pCi/L	03/13/18 16:31	03/20/18 18:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/13/18 16:31	03/20/18 18:14	1
Y Carrier	81.5		40 - 110					03/13/18 16:31	03/20/18 18:14	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	1.32		0.377	0.396	5.00	0.441	pCi/L		04/04/18 16:12	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
G	The Sample MDC is greater than the requested RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
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

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05396 MW-1

Date Collected: 02/27/18 10:03

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150385-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05397 MW-2

Date Collected: 02/27/18 11:22

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150385-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05398 MW-3

Date Collected: 02/27/18 12:26

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150385-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05399 MW-24

Date Collected: 02/27/18 13:32

Date Received: 03/02/18 16:40

Lab Sample ID: 400-150385-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05400 MW-23

Lab Sample ID: 400-150385-5

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05401 MW-23 DUP

Lab Sample ID: 400-150385-6

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05402 MW-32

Lab Sample ID: 400-150385-7

Date Collected: 02/27/18 16:05

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05403 FB-3

Lab Sample ID: 400-150385-8

Date Collected: 02/27/18 16:15

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05404 MW-5

Lab Sample ID: 400-150385-9

Date Collected: 02/27/18 09:29

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05405 MW-6

Lab Sample ID: 400-150385-10

Date Collected: 02/27/18 10:25

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05406 MW-7

Lab Sample ID: 400-150385-11

Date Collected: 02/27/18 11:29

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05407 MW-8

Lab Sample ID: 400-150385-12

Date Collected: 02/27/18 12:30

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05408 MW-9

Lab Sample ID: 400-150385-13

Date Collected: 02/27/18 13:35

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05409 MW-10

Lab Sample ID: 400-150385-14

Date Collected: 02/27/18 14:35

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05410 MW-11

Lab Sample ID: 400-150385-15

Date Collected: 02/27/18 15:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05411 MW-11 DUP

Lab Sample ID: 400-150385-16

Date Collected: 02/27/18 15:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05412 MW-21

Lab Sample ID: 400-150385-17

Date Collected: 02/28/18 09:59

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05413 FB-2

Lab Sample ID: 400-150385-18

Date Collected: 02/28/18 10:30

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05414 MW-12

Lab Sample ID: 400-150385-19

Date Collected: 02/28/18 10:50

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358768	04/04/18 06:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357213	03/22/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05415 MW-13

Lab Sample ID: 400-150385-20

Date Collected: 02/28/18 11:41

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355339	03/13/18 14:01	JTR	TAL SL
Total/NA	Analysis	9315		1	358769	04/04/18 06:15	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355344	03/13/18 14:33	JTR	TAL SL
Total/NA	Analysis	9320		1	357089	03/22/18 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05416 MW-15

Lab Sample ID: 400-150385-21

Date Collected: 02/28/18 12:36

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:12	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05417 EB-1

Lab Sample ID: 400-150385-22

Date Collected: 02/28/18 12:50

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:12	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05418 MW-30

Lab Sample ID: 400-150385-23

Date Collected: 02/27/18 09:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:12	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05419 MW-29

Lab Sample ID: 400-150385-24

Date Collected: 02/27/18 10:31

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:12	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05420 MW-28

Lab Sample ID: 400-150385-25

Date Collected: 02/27/18 11:26

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05421 MW-27

Lab Sample ID: 400-150385-26

Date Collected: 02/27/18 12:13

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05422 MW-26

Lab Sample ID: 400-150385-27

Date Collected: 02/27/18 13:04

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05423 MW-31

Lab Sample ID: 400-150385-28

Date Collected: 02/27/18 14:26

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Client Sample ID: AY05424 MW-33

Lab Sample ID: 400-150385-29

Date Collected: 02/27/18 15:08

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05425 MW-14

Lab Sample ID: 400-150385-30

Date Collected: 02/27/18 16:27

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05426 MW-17

Lab Sample ID: 400-150385-31

Date Collected: 02/28/18 09:20

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358771	04/04/18 06:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05427 MW-16

Lab Sample ID: 400-150385-32

Date Collected: 02/28/18 10:40

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358770	04/04/18 06:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Client Sample ID: AY05428 MW-18

Lab Sample ID: 400-150385-33

Date Collected: 02/28/18 11:25

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358770	04/04/18 06:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05429 MW-25

Lab Sample ID: 400-150385-34

Date Collected: 02/28/18 12:18

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358770	04/04/18 06:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05430 MW-30 DUP

Lab Sample ID: 400-150385-35

Date Collected: 02/27/18 09:37

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358770	04/04/18 06:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Client Sample ID: AY05431 FB-1

Lab Sample ID: 400-150385-36

Date Collected: 02/28/18 11:16

Matrix: Water

Date Received: 03/02/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			355353	03/13/18 15:45	JTR	TAL SL
Total/NA	Analysis	9315		1	358770	04/04/18 06:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			355358	03/13/18 16:31	JTR	TAL SL
Total/NA	Analysis	9320		1	356517	03/20/18 18:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	358991	04/04/18 16:12	RTM	TAL SL

Laboratory References:

TAL SL = 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

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Rad

Prep Batch: 355339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150385-1	AY05396 MW-1	Total/NA	Water	PrecSep-21	
400-150385-2	AY05397 MW-2	Total/NA	Water	PrecSep-21	
400-150385-3	AY05398 MW-3	Total/NA	Water	PrecSep-21	
400-150385-4	AY05399 MW-24	Total/NA	Water	PrecSep-21	
400-150385-5	AY05400 MW-23	Total/NA	Water	PrecSep-21	
400-150385-6	AY05401 MW-23 DUP	Total/NA	Water	PrecSep-21	
400-150385-7	AY05402 MW-32	Total/NA	Water	PrecSep-21	
400-150385-8	AY05403 FB-3	Total/NA	Water	PrecSep-21	
400-150385-9	AY05404 MW-5	Total/NA	Water	PrecSep-21	
400-150385-10	AY05405 MW-6	Total/NA	Water	PrecSep-21	
400-150385-11	AY05406 MW-7	Total/NA	Water	PrecSep-21	
400-150385-12	AY05407 MW-8	Total/NA	Water	PrecSep-21	
400-150385-13	AY05408 MW-9	Total/NA	Water	PrecSep-21	
400-150385-14	AY05409 MW-10	Total/NA	Water	PrecSep-21	
400-150385-15	AY05410 MW-11	Total/NA	Water	PrecSep-21	
400-150385-16	AY05411 MW-11 DUP	Total/NA	Water	PrecSep-21	
400-150385-17	AY05412 MW-21	Total/NA	Water	PrecSep-21	
400-150385-18	AY05413 FB-2	Total/NA	Water	PrecSep-21	
400-150385-19	AY05414 MW-12	Total/NA	Water	PrecSep-21	
400-150385-20	AY05415 MW-13	Total/NA	Water	PrecSep-21	
MB 160-355339/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-355339/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-150385-12 DU	AY05407 MW-8	Total/NA	Water	PrecSep-21	

Prep Batch: 355344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150385-1	AY05396 MW-1	Total/NA	Water	PrecSep_0	
400-150385-2	AY05397 MW-2	Total/NA	Water	PrecSep_0	
400-150385-3	AY05398 MW-3	Total/NA	Water	PrecSep_0	
400-150385-4	AY05399 MW-24	Total/NA	Water	PrecSep_0	
400-150385-5	AY05400 MW-23	Total/NA	Water	PrecSep_0	
400-150385-6	AY05401 MW-23 DUP	Total/NA	Water	PrecSep_0	
400-150385-7	AY05402 MW-32	Total/NA	Water	PrecSep_0	
400-150385-8	AY05403 FB-3	Total/NA	Water	PrecSep_0	
400-150385-9	AY05404 MW-5	Total/NA	Water	PrecSep_0	
400-150385-10	AY05405 MW-6	Total/NA	Water	PrecSep_0	
400-150385-11	AY05406 MW-7	Total/NA	Water	PrecSep_0	
400-150385-12	AY05407 MW-8	Total/NA	Water	PrecSep_0	
400-150385-13	AY05408 MW-9	Total/NA	Water	PrecSep_0	
400-150385-14	AY05409 MW-10	Total/NA	Water	PrecSep_0	
400-150385-15	AY05410 MW-11	Total/NA	Water	PrecSep_0	
400-150385-16	AY05411 MW-11 DUP	Total/NA	Water	PrecSep_0	
400-150385-17	AY05412 MW-21	Total/NA	Water	PrecSep_0	
400-150385-18	AY05413 FB-2	Total/NA	Water	PrecSep_0	
400-150385-19	AY05414 MW-12	Total/NA	Water	PrecSep_0	
400-150385-20	AY05415 MW-13	Total/NA	Water	PrecSep_0	
MB 160-355344/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-355344/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-150385-12 DU	AY05407 MW-8	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Rad (Continued)

Prep Batch: 355353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150385-21	AY05416 MW-15	Total/NA	Water	PrecSep-21	
400-150385-22	AY05417 EB-1	Total/NA	Water	PrecSep-21	
400-150385-23	AY05418 MW-30	Total/NA	Water	PrecSep-21	
400-150385-24	AY05419 MW-29	Total/NA	Water	PrecSep-21	
400-150385-25	AY05420 MW-28	Total/NA	Water	PrecSep-21	
400-150385-26	AY05421 MW-27	Total/NA	Water	PrecSep-21	
400-150385-27	AY05422 MW-26	Total/NA	Water	PrecSep-21	
400-150385-28	AY05423 MW-31	Total/NA	Water	PrecSep-21	
400-150385-29	AY05424 MW-33	Total/NA	Water	PrecSep-21	
400-150385-30	AY05425 MW-14	Total/NA	Water	PrecSep-21	
400-150385-31	AY05426 MW-17	Total/NA	Water	PrecSep-21	
400-150385-32	AY05427 MW-16	Total/NA	Water	PrecSep-21	
400-150385-33	AY05428 MW-18	Total/NA	Water	PrecSep-21	
400-150385-34	AY05429 MW-25	Total/NA	Water	PrecSep-21	
400-150385-35	AY05430 MW-30 DUP	Total/NA	Water	PrecSep-21	
400-150385-36	AY05431 FB-1	Total/NA	Water	PrecSep-21	
MB 160-355353/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-355353/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-150385-24 DU	AY05419 MW-29	Total/NA	Water	PrecSep-21	

Prep Batch: 355358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-150385-21	AY05416 MW-15	Total/NA	Water	PrecSep_0	
400-150385-22	AY05417 EB-1	Total/NA	Water	PrecSep_0	
400-150385-23	AY05418 MW-30	Total/NA	Water	PrecSep_0	
400-150385-24	AY05419 MW-29	Total/NA	Water	PrecSep_0	
400-150385-25	AY05420 MW-28	Total/NA	Water	PrecSep_0	
400-150385-26	AY05421 MW-27	Total/NA	Water	PrecSep_0	
400-150385-27	AY05422 MW-26	Total/NA	Water	PrecSep_0	
400-150385-28	AY05423 MW-31	Total/NA	Water	PrecSep_0	
400-150385-29	AY05424 MW-33	Total/NA	Water	PrecSep_0	
400-150385-30	AY05425 MW-14	Total/NA	Water	PrecSep_0	
400-150385-31	AY05426 MW-17	Total/NA	Water	PrecSep_0	
400-150385-32	AY05427 MW-16	Total/NA	Water	PrecSep_0	
400-150385-33	AY05428 MW-18	Total/NA	Water	PrecSep_0	
400-150385-34	AY05429 MW-25	Total/NA	Water	PrecSep_0	
400-150385-35	AY05430 MW-30 DUP	Total/NA	Water	PrecSep_0	
400-150385-36	AY05431 FB-1	Total/NA	Water	PrecSep_0	
MB 160-355358/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-355358/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-150385-24 DU	AY05419 MW-29	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-355339/23-A
Matrix: Water
Analysis Batch: 358769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355339

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03677	U	0.0458	0.0459	1.00	0.0754	pCi/L	03/13/18 14:01	04/04/18 06:15	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					03/13/18 14:01	04/04/18 06:15	1

Lab Sample ID: LCS 160-355339/1-A
Matrix: Water
Analysis Batch: 358768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355339

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.8	11.39		1.16	1.00	0.0816	pCi/L	97	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	90.9		40 - 110						

Lab Sample ID: 400-150385-12 DU
Matrix: Water
Analysis Batch: 358768

Client Sample ID: AY05407 MW-8
Prep Type: Total/NA
Prep Batch: 355339

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.265		0.2766		0.111	1.00	0.0956	pCi/L	0.05	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	95.3		40 - 110							

Lab Sample ID: MB 160-355353/22-A
Matrix: Water
Analysis Batch: 358770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355353

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01085	U	0.0423	0.0424	1.00	0.0840	pCi/L	03/13/18 15:45	04/04/18 06:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/13/18 15:45	04/04/18 06:26	1

Lab Sample ID: LCS 160-355353/1-A
Matrix: Water
Analysis Batch: 358771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355353

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.8	11.70		1.18	1.00	0.0705	pCi/L	99	68 - 137

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-355353/1-A
Matrix: Water
Analysis Batch: 358771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355353

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.2		40 - 110

Lab Sample ID: 400-150385-24 DU
Matrix: Water
Analysis Batch: 358771

Client Sample ID: AY05419 MW-29
Prep Type: Total/NA
Prep Batch: 355353

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.212		0.1613		0.0814	1.00	0.0809	pCi/L	0.29	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	101		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-355344/23-A
Matrix: Water
Analysis Batch: 357089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355344

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2590	U	0.156	0.158	1.00	0.332	pCi/L	03/13/18 14:33	03/22/18 14:42	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110	03/13/18 14:33	03/22/18 14:42	1
Y Carrier	90.5		40 - 110	03/13/18 14:33	03/22/18 14:42	1

Lab Sample ID: LCS 160-355344/1-A
Matrix: Water
Analysis Batch: 357213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355344

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.46	9.702		1.11	1.00	0.375	pCi/L	115	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.9		40 - 110
Y Carrier	92.7		40 - 110

Lab Sample ID: 400-150385-12 DU
Matrix: Water
Analysis Batch: 357213

Client Sample ID: AY05407 MW-8
Prep Type: Total/NA
Prep Batch: 355344

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.0493	U	0.3799	U	0.317	1.00	0.502	pCi/L	0.60	1

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-150385-12 DU
Matrix: Water
Analysis Batch: 357213

Client Sample ID: AY05407 MW-8
Prep Type: Total/NA
Prep Batch: 355344

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.3		40 - 110
Y Carrier	90.1		40 - 110

Lab Sample ID: MB 160-355358/22-A
Matrix: Water
Analysis Batch: 356517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355358

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1119	U	0.194	0.195	1.00	0.330	pCi/L	03/13/18 16:31	03/20/18 18:14	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110	03/13/18 16:31	03/20/18 18:14	1
Y Carrier	87.1		40 - 110	03/13/18 16:31	03/20/18 18:14	1

Lab Sample ID: LCS 160-355358/1-A
Matrix: Water
Analysis Batch: 356516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355358

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	16.9	17.56		1.85	1.00	0.369	pCi/L	104	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.2		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: 400-150385-24 DU
Matrix: Water
Analysis Batch: 356517

Client Sample ID: AY05419 MW-29
Prep Type: Total/NA
Prep Batch: 355358

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.693		1.153		0.384	1.00	0.484	pCi/L	0.63	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	101		40 - 110
Y Carrier	85.2		40 - 110

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-150385-12 DU
Matrix: Water
Analysis Batch: 358991

Client Sample ID: AY05407 MW-8
Prep Type: Total/NA


Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.314	U	0.6565		0.336	5.00	0.502	pCi/L	0.57	

Lab Sample ID: 400-150385-24 DU
Matrix: Water
Analysis Batch: 358991

Client Sample ID: AY05419 MW-29
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.905		1.314		0.393	5.00	0.484	pCi/L	0.54	

Chain of Custody Record

Client Information Client Contact: Sarah Copeland Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6121(Tel) Email: sgcopela@southernco.com Project Name: CCR Site: Greene County Ash Pond 1139		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): Lab No: 400-56525-24537.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): Routine PO #: 40007143 WO #: 40007143 Project #: 40007143 SSO#:		Analysis Requested  400-150385 COC	
Sample Identification Sample ID: AY05396 AY05397 AY05398 AY05399 AY05400 AY05401 AY05402 AY05403		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Total Number of Containers: 1 Special Instructions/Note:	
Sample Date: 2/27/18 2/27/18 2/27/18 2/27/18 2/27/18 2/27/18 2/27/18		Sample Time: 1003 1122 1226 1332 1435 1435 1605 1615	
Sample Type (C=comp, G=grab) G G G G G G G		Matrix (Water, Solid, Other) Water Water Water Water Water Water Water	
Preservation Code: D X X X X X X X		Special Instructions/Note: MW-1 MW-2 MW-3 MW-24 MW-23 MW-23 Dup (Sample Duplicate) MW-32 FB-3 (Field Blank)	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: Sarah Copeland Relinquished by: Sarah Copeland Relinquished by: Relinquished by:		Method of Shipment: Date/Time: 3.2.18 1640 Received by: [Signature] Date/Time: Received by: Date/Time: Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Callera State, Zip: AL 35040 Phone: 205-664-6121(Tel) Email: sgcpela@southernco.com Project Name: CCR Site: Greene County Ash Pond 1139		Sampler: Ben Rofschadi Phone: Lab PM: Whitmire, Chyanne R E-Mail: chyanne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 2 of 3 Job #:	
Due Date Requested: TAT Requested (days): Routine		Analysis Requested			
PO #: WO #: Project #: 40007143 SSON#:		Total Number of containers:			
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Date		Sample Time (C=comp, G=grab)		Matrix (W=water, S=solid, O=oil, J=juice, A=air)	
Sample Date		Sample Time		Preservation Code:	
AY05404	2/27/18	0929	G	Water	X
AY05405	2/27/18	1025	G	Water	X
AY05406	2/27/18	1129	G	Water	X
AY05407	2/27/18	1230	G	Water	Y
AY05408	2/27/18	1335	G	Water	X
AY05409	2/27/18	1435	G	Water	X
AY05410	2/27/18	1537	G	Water	X
AY05411	2/27/18	1537	G	Water	X
AY05412	2/28/18	0959	G	Water	X
AY05413	2/28/18	1030	G	Water	X
AY05414	2/28/18	1050	G	Water	X
AY05415	2/28/18	1141	G	Water	X
AY05416	2/28/18	1236	G	Water	X
AY05417	2/28/18	1250	G	Water	X
Special Instructions/Note: MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-11 Dup (Sample Duplicate) MW-21 FB-2 (Field Blank) MW-12 MW-13 MW-15 EB-1 (Equipment Blank)					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: Saran Copeland Date/Time: 3/1/2018; 1100 Company: APC					
Relinquished by:					
Relinquished by:					
Relinquished by:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Cooler Temperature(s) °C and Other Remarks:					

Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: *[Signature]* Date/Time: 3.2.18 1640
 Company: TA-PEG
 Received by: _____ Date/Time: _____
 Company: _____
 Received by: _____ Date/Time: _____
 Company: _____



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-150385-1
SDG Number: Greene County Ash Pond 1139

Login Number: 150385
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	N/A	
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 <math><6\text{mm}</math> (1/4").	N/A	
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

TestAmerica Job ID: 400-150385-1
 SDG: Greene County Ash Pond 1139

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18 *
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-18
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-18
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-18
Arizona	State Program	9	AZ0813	12-08-18
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-18
Illinois	NELAP	5	200023	11-30-18
Iowa	State Program	7	373	12-01-18
Kansas	NELAP	7	E-10236	10-31-18
Kentucky (DW)	State Program	4	90125	12-31-18
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-18
Louisiana (DW)	NELAP	6	LA180017	12-31-18
Maryland	State Program	3	310	09-30-18
Missouri	State Program	7	780	06-30-18
Nevada	State Program	9	MO000542018-1	07-31-18
New Jersey	NELAP	2	MO002	06-30-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-150385-1
SDG: Greene County Ash Pond 1139

Laboratory: TestAmerica St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11616	03-31-19
North Dakota	State Program	8	R207	06-30-18
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-18
Pennsylvania	NELAP	3	68-00540	02-28-19
South Carolina	State Program	4	85002001	06-30-18
Texas	NELAP	6	T104704193-17-11	07-31-18
US Fish & Wildlife	Federal		058448	08-31-18
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-18
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-18
West Virginia DEP	State Program	3	381	08-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

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

2018 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).

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) 664-6032 or 6171
FAX (205) 257-1654

Analytical Report



Sample Group : WMWGREAP_1153
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 : Sarah Copeland
sgcopela@southernco.com
(205) 664-6121

The following data has been reviewed and approved by:

Quality Control: Sarah Copeland
Digitally signed by Sarah Copeland
DN: cn=Sarah Copeland, o, ou,
email=sgcopela@southernco.com,
c=US
Date: 2018.07.05 14:27:18 -0500

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: 2018.07.10 17:12:27 -0500



Metals ICP

Greene County Ash Pond

WMWGREAP_1153

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY13214	621656	WMWGREAP_1153
AY13215	621656	WMWGREAP_1153
AY13216	621656	WMWGREAP_1153
AY13217	621656	WMWGREAP_1153
AY13218	621656	WMWGREAP_1153
AY13219	621656	WMWGREAP_1153
AY13233	621656	WMWGREAP_1153
AY13234	621656	WMWGREAP_1153
AY13235	621656	WMWGREAP_1153
AY13236	621656	WMWGREAP_1153
AY13237	623392	WMWGREAP_1153
AY13238	623392	WMWGREAP_1153
AY13239	623392	WMWGREAP_1153
AY13240	623392	WMWGREAP_1153
AY13241	623392	WMWGREAP_1153
AY13242	623392	WMWGREAP_1153
AY13243	623392	WMWGREAP_1153
AY13244	623392	WMWGREAP_1153
AY13245	623392	WMWGREAP_1153
AY13246	623392	WMWGREAP_1153
AY13247	623393	WMWGREAP_1153
AY13248	623393	WMWGREAP_1153
AY13249	623393	WMWGREAP_1153
AY13250	623393	WMWGREAP_1153
AY13251	623393	WMWGREAP_1153
AY13252	623393	WMWGREAP_1153
AY13253	623393	WMWGREAP_1153
AY13254	623393	WMWGREAP_1153
AY13255	623393	WMWGREAP_1153
AY13256	623393	WMWGREAP_1153
AY13257	623394	WMWGREAP_1153
AY13258	623394	WMWGREAP_1153
AY13259	623394	WMWGREAP_1153



AY13260	623394	WMWGREAP_1153
AY13261	623394	WMWGREAP_1153
AY13262	623394	WMWGREAP_1153

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 passed.
- 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 final CCV for AY13262. Reanalysis of CCV passed all acceptance criteria and was reported.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes except for final CCB for AY13262. Reanalysis of CCB passed all acceptance criteria and was reported.
- 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 spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met except for final CCV and CCB for AY13262. Reanalysis of CCV and CCB passed all acceptance criteria and both were reported.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria except for Calcium for AY13259. The wrong vial was sampled. New dilution matched the original undiluted result and was 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 ICP batch. All acceptance criteria for accuracy were met, with the following exception:

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AY13236

The concentrations of the sample matrix spike/matrix spike duplicate added before digestion is less than 30 percent of the sample concentration, causing inaccurate spike recovery information. The laboratory control sample indicates that the digestion and analysis were in control.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve.

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AY13233	Calcium	x10.15
AY13236	Calcium	x10.15
AY13236MS	Calcium	x10.15
AY13236MSD	Calcium	x10.15
AY13239	Calcium	x10.15
AY13240	Calcium	x10.15
AY13242	Calcium	x10.15
AY13259	Calcium	x10.15

8. The raw data results include results corrected for dilution.



Metals ICPMS

Greene County Ash Pond

WMWGREAP_1153

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY13214	621743	WMWGREAP_1153
AY13215	621743	WMWGREAP_1153
AY13216	621743	WMWGREAP_1153
AY13217	621743	WMWGREAP_1153
AY13218	621743	WMWGREAP_1153
AY13219	621743	WMWGREAP_1153
AY13233	621743	WMWGREAP_1153
AY13234	621743	WMWGREAP_1153
AY13235	621743	WMWGREAP_1153
AY13236	621743	WMWGREAP_1153
AY13237	621744	WMWGREAP_1153
AY13238	621744	WMWGREAP_1153
AY13239	621744	WMWGREAP_1153
AY13240	621744	WMWGREAP_1153
AY13241	621744	WMWGREAP_1153
AY13242	621744	WMWGREAP_1153
AY13243	621744	WMWGREAP_1153
AY13244	621744	WMWGREAP_1153
AY13245	621744	WMWGREAP_1153
AY13246	621744	WMWGREAP_1153
AY13247	621745	WMWGREAP_1153
AY13248	621745	WMWGREAP_1153
AY13249	621745	WMWGREAP_1153
AY13250	621745	WMWGREAP_1153
AY13251	621745	WMWGREAP_1153
AY13252	621745	WMWGREAP_1153
AY13253	621745	WMWGREAP_1153
AY13254	621745	WMWGREAP_1153
AY13255	621745	WMWGREAP_1153
AY13256	621745	WMWGREAP_1153
AY13257	621746	WMWGREAP_1153
AY13258	621746	WMWGREAP_1153
AY13259	621746	WMWGREAP_1153



AY13260	621746	WMWGREAP_1153
AY13261	621746	WMWGREAP_1153
AY13262	621746	WMWGREAP_1153

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 at a dilution of 1 to 5 to compensate for any matrix effects.
8. The raw data results are shown with dilution factors included.



Mercury

Greene County Ash Pond

WMWGREAP_1153

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY13214	621271	WMWGREAP_1153
AY13215	621271	WMWGREAP_1153
AY13216	621271	WMWGREAP_1153
AY13217	621271	WMWGREAP_1153
AY13218	621271	WMWGREAP_1153
AY13219	621271	WMWGREAP_1153
AY13233	621271	WMWGREAP_1153
AY13234	621271	WMWGREAP_1153
AY13235	621271	WMWGREAP_1153
AY13236	621271	WMWGREAP_1153
AY13237	621272	WMWGREAP_1153
AY13238	621272	WMWGREAP_1153
AY13239	621272	WMWGREAP_1153
AY13240	621272	WMWGREAP_1153
AY13241	621272	WMWGREAP_1153
AY13242	621272	WMWGREAP_1153
AY13243	621272	WMWGREAP_1153
AY13244	621272	WMWGREAP_1153
AY13245	621272	WMWGREAP_1153
AY13246	621272	WMWGREAP_1153
AY13247	621273	WMWGREAP_1153
AY13248	621273	WMWGREAP_1153
AY13249	621273	WMWGREAP_1153
AY13250	621273	WMWGREAP_1153
AY13251	621273	WMWGREAP_1153
AY13252	621273	WMWGREAP_1153
AY13253	621273	WMWGREAP_1153
AY13254	621273	WMWGREAP_1153
AY13255	621273	WMWGREAP_1153
AY13256	621273	WMWGREAP_1153
AY13257	621274	WMWGREAP_1153
AY13258	621274	WMWGREAP_1153
AY13259	621274	WMWGREAP_1153



AY13260	621274	WMWGREAP_1153
AY13261	621274	WMWGREAP_1153
AY13262	621274	WMWGREAP_1153

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_1153

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY13214	621397	WMWGREAP_1153
AY13215	621397	WMWGREAP_1153
AY13216	621397	WMWGREAP_1153
AY13217	621397	WMWGREAP_1153
AY13218	621397	WMWGREAP_1153
AY13219	621397	WMWGREAP_1153
AY13233	621397	WMWGREAP_1153
AY13234	621397	WMWGREAP_1153
AY13235	621397	WMWGREAP_1153
AY13236	621398	WMWGREAP_1153
AY13237	621398	WMWGREAP_1153
AY13238	621398	WMWGREAP_1153
AY13239	621398	WMWGREAP_1153
AY13240	621398	WMWGREAP_1153
AY13241	621398	WMWGREAP_1153
AY13242	621398	WMWGREAP_1153
AY13243	621398	WMWGREAP_1153
AY13244	621398	WMWGREAP_1153
AY13245	621398	WMWGREAP_1153
AY13246	622049	WMWGREAP_1153
AY13247	622049	WMWGREAP_1153
AY13248	622049	WMWGREAP_1153
AY13249	622049	WMWGREAP_1153
AY13250	622049	WMWGREAP_1153
AY13251	622049	WMWGREAP_1153
AY13252	622049	WMWGREAP_1153
AY13253	622049	WMWGREAP_1153
AY13254	622049	WMWGREAP_1153
AY13255	622049	WMWGREAP_1153
AY13256	622050	WMWGREAP_1153
AY13257	622050	WMWGREAP_1153
AY13258	622050	WMWGREAP_1153
AY13259	622050	WMWGREAP_1153



AY13260	622050	WMWGREAP_1153
AY13261	622050	WMWGREAP_1153
AY13262	622050	WMWGREAP_1153

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 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.
- All samples were between 2.5mg and 200mg residue except for AY13219, AY13237, AY13250, AY13261 & AY13262, which did not meet the 2.5mg residue requirement. Maximum volume of 150mL analyzed.

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY13214

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0661	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.128	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.36	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	66.3	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0138	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.353	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	352	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY13214

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	20
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY13214

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60			0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY13215

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.382	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.149	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.76	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	77.4	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0456	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.531	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0363	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		50	644	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY13215

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	20
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY13215

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60		0.0979	5

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-17 Dup

Laboratory ID Number: AY13216

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.392	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.151	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.77	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	76.9	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0443	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.532	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0410	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		50	636	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-17 Dup

Laboratory ID Number: AY13216

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-17 Dup

Laboratory ID Number: AY13216

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60			0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY13217

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0648	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0471	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.36	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	66.8	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0114	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.490	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	J 0.000288	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	408	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY13217

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY13217

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60			0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY13218

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0269	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.543	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	45.1	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0148	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.492	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	318	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY13218

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
				Limit	Spike					Rec	Limit		
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY13218

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Prec	
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60	0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13219

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13219

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 06-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13219

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60	0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY13233

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0195	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0314	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.242	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		10.15	1.015	5.075	157	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0758	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		100	1370	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY13233

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY13233

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60		0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY13234

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0124	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0298	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.134	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	68.3	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00866	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	528	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY13234

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY13234

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60		0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-2 Dup

Laboratory ID Number: AY13235

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0114	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0292	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.134	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	67.6	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00929	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	511	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-2 Dup

Laboratory ID Number: AY13235

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-2 Dup

Laboratory ID Number: AY13235

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY13235	Solids, Dissolved	mg/L	-2.00	25			510	52.0	40 to 60			0.0979	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY13236

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.00731	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0936	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	J 0.0296	mg/L
* Calcium, Total	GAS	6/13/2018	EPA 200.7		10.15	1.015	5.075	98.8	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00380	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	369	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Recovery for Calcium is out of spec. The spike amount is less than 30% of the sample amount. SGC 7/3/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY13236

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AY13236	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.0908	0.0925	0.0912	0.085 to 0.115	90.8	70 to 130	1.90	20
AY13236	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0927	0.0950	0.0954	0.085 to 0.115	92.7	70 to 130	2.49	20
AY13236	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0907	0.0910	0.0925	0.085 to 0.115	90.7	70 to 130	0.312	20
AY13236	Boron, Total	mg/L	-0.000949	0.044	1.00	0.953	0.963	0.956	0.85 to 1.15	92.4	70 to 130	0.959	20
AY13236	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.106	0.106	0.100	0.085 to 0.115	98.4	70 to 130	0.531	20
AY13236	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.188	0.189	0.0930	0.085 to 0.115	94.6	70 to 130	0.411	20
AY13236	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0955	0.0960	0.0968	0.085 to 0.115	95.5	70 to 130	0.475	20
AY13236	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0915	0.0914	0.0997	0.085 to 0.115	91.5	70 to 130	0.0896	20
AY13236	Calcium, Total	mg/L	0.000937	0.22	5.00	94.5	94.5	4.92	4.25 to 5.75	-87.0	70 to 130	0.0040220	
AY13236	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0917	0.0910	0.0908	0.085 to 0.115	91.7	70 to 130	0.701	20
AY13236	Lithium, Total	mg/L	0.0000750	0.022	0.20	0.192	0.194	0.187	0.17 to 0.23	96.0	70 to 130	1.04	20
AY13236	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0959	0.0954	0.0992	0.085 to 0.115	95.9	70 to 130	0.545	20
AY13236	Mercury, Total by CVAA	mg/L	0.0000612	0.0005	0.004	0.00336	0.00338	0.00360	0.0034 to 0.0046	84.0	70 to 130	0.599	20
AY13236	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.100	0.101	0.0988	0.085 to 0.115	96.4	70 to 130	0.940	20
AY13236	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0986	0.0984	0.101	0.085 to 0.115	98.6	70 to 130	0.195	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Recovery for Calcium is out of spec. The spike amount is less than 30% of the sample amount. SGC 7/3/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY13236

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY13245	Solids, Dissolved	mg/L	-2.00		25			211	52.0		40 to 60			0.957		5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Recovery for Calcium is out of spec. The spike amount is less than 30% of the sample amount. SGC 7/3/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13237

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13237

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit
				Limit	Spike					Limit	Prec		
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 04-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13237

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY13238

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.454	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.270	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.489	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	64.8	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00481	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.101	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00293	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	347	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY13238

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit
				Limit	Spike					Limit	Prec		
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY13238

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY13239

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0510	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.56	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		10.15	1.015	5.075	121	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00237	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	J 0.0218	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		50	582	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY13239

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike	MS				Limit	Rec	Limit	Prec	
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20	
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20	
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20	
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20	
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20	
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20	
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20	
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20	
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20	
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20	
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20	
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20	
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20	
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20	
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY13239

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957 5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY13240

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0672	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.605	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		10.15	1.015	5.075	186	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		50	1060	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY13240

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY13240

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY13241

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0789	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.73	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	58.0	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00478	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	J 0.0286	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		50	474	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY13241

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit
				Limit	Spike					Limit	Prec		
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY13241

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY13242

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.00921	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.111	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.954	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		10.15	1.015	5.075	95.1	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0113	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	J 0.0338	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		50	448	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY13242

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
			MB	Limit						Rec	Limit		
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY13242

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60	0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY13243

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0233	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.173	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	1.31	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	65.5	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0139	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.104	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00752	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	346	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY13243

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY13243

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY13244

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.00637	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0643	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.311	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	25.7	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0360	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.102	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00984	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	200	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY13244

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
				Limit	Spike					Rec	Limit		
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY13244

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY13245

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0355	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.245	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	30.2	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	J 0.0469	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0579	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/11/2018	SM 2540C		1		25	207	mg/L
Filter Completion Date	KRC	6/11/2018	SM 2540C		1			6/7/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY13245

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY13245

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit		
AY13245	Solids, Dissolved	mg/L	-2.00	25			211	52.0	40 to 60		0.957	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY13246

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0204	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/11/2018	EPA 200.7		2.03	0.02	0.1	0.260	mg/L
* Calcium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.1	0.5	30.1	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/11/2018	EPA 200.7		2.03	0.01	0.05	0.0670	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0757	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	199	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY13246

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13246	Molybdenum, Total	mg/L	0.0000208	0.0044	0.10	0.167	0.168	0.0912	0.085 to 0.115	91.2	70 to 130	0.566	20
AY13246	Mercury, Total by CVAA	mg/L	0.0000613	0.0005	0.004	0.00339	0.00341	0.00367	0.0034 to 0.0046	84.8	70 to 130	0.567	20
AY13246	Barium, Total	mg/L	0.0000175	0.0044	0.10	0.112	0.114	0.0930	0.085 to 0.115	91.9	70 to 130	1.60	20
AY13246	Calcium, Total	mg/L	0.00146	0.22	5.00	35.0	34.7	4.89	4.25 to 5.75	97.9	70 to 130	0.622	20
AY13246	Cobalt, Total	mg/L	0.0000121	0.0044	0.10	0.0936	0.0946	0.0988	0.085 to 0.115	93.6	70 to 130	1.07	20
AY13246	Selenium, Total	mg/L	0.0000270	0.0044	0.10	0.0981	0.103	0.101	0.085 to 0.115	98.1	70 to 130	4.72	20
AY13246	Thallium, Total	mg/L	0.0000118	0.00044	0.10	0.0884	0.0912	0.0997	0.085 to 0.115	88.4	70 to 130	3.06	20
AY13246	Antimony, Total	mg/L	0.0000609	0.00132	0.10	0.0937	0.0940	0.0925	0.085 to 0.115	93.7	70 to 130	0.232	20
AY13246	Arsenic, Total	mg/L	0.0000176	0.0022	0.10	0.0977	0.0995	0.100	0.085 to 0.115	97.7	70 to 130	1.75	20
AY13246	Beryllium, Total	mg/L	0.0000297	0.00132	0.10	0.0920	0.0920	0.0954	0.085 to 0.115	92.0	70 to 130	0.0578	20
AY13246	Boron, Total	mg/L	-0.000425	0.044	1.00	1.17	1.18	0.916	0.85 to 1.15	91.4	70 to 130	0.791	20
AY13246	Cadmium, Total	mg/L	0.0000209	0.00066	0.10	0.0940	0.0965	0.0992	0.085 to 0.115	94.0	70 to 130	2.60	20
AY13246	Chromium, Total	mg/L	-0.0000227	0.0044	0.10	0.0913	0.0953	0.0968	0.085 to 0.115	91.3	70 to 130	4.23	20
AY13246	Lead, Total	mg/L	0.0000179	0.0022	0.10	0.0894	0.0920	0.0908	0.085 to 0.115	89.4	70 to 130	2.83	20
AY13246	Lithium, Total	mg/L	0.0000628	0.022	0.20	0.254	0.253	0.177	0.17 to 0.23	93.3	70 to 130	0.211	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY13246

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60	0.748	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY13247

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	J 0.00352	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0951	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	0.244	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	23.7	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	J 0.00261	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	0.148	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0253	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00496	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	J 0.000239	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	138	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY13247

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY13247

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec			
				Limit			Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60			0.748	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY13248

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.108	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	30.0	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00294	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	171	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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.

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY13248

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
			MB	Limit					Rec	Limit		
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.0034 to 0.0046	84.2	70 to 130	1.54	20

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.

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY13248

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60			0.748	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY13249

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0279	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	34.5	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	113	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY13249

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY13249

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY13246	Solids, Dissolved	mg/L	3.00		25			202	59.0		40 to 60			0.748	5	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY13250

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0433	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	J 0.200	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00317	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Sample did not meet the 2.5mg residue requirement for TDS.
 SGC 6/18/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY13250

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Sample did not meet the 2.5mg residue requirement for TDS.
 SGC 6/18/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY13250

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
				Limit			Duplicate	LCS	Limit	Rec	Prec	
										Limit	Limit	
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60		0.748	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Sample did not meet the 2.5mg residue requirement for TDS.
 SGC 6/18/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY13251

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0633	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	1.18	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	28.7	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY13251

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY13251

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60		0.748	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY13252

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.243	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	2.76	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	J 0.000731	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	34.7	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY13252

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY13252

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60			0.748	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY13253

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0298	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	J 0.339	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	26.0	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY13253

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit
				Limit	Spike					Limit	Prec		
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY13253

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60			0.748	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6032 or 6171
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY13254

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0356	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	J 0.000821	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	3.93	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00223	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	38.7	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY13254

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY13254

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60		0.748	5

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Expiration: June 30, 2019

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Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY13255

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0126	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	11.4	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	52.7	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY13255

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY13255

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13246	Solids, Dissolved	mg/L	3.00	25			202	59.0	40 to 60		0.748	5

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 (205) 664-6032 or 6171
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY13256

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0875	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	2.97	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	71.3	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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Comments:

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY13256

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13256	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0875	0.0891	0.0943	0.085 to 0.115	87.5	70 to 130	1.79	20
AY13256	Lithium, Total	mg/L	0.0000430	0.022	0.20	0.202	0.202	0.200	0.17 to 0.23	101	70 to 130	0.178	20
AY13256	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0971	0.0962	0.0996	0.085 to 0.115	97.1	70 to 130	0.954	20
AY13256	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0948	0.100	0.101	0.085 to 0.115	94.8	70 to 130	5.35	20
AY13256	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0893	0.0891	0.0907	0.085 to 0.115	89.3	70 to 130	0.250	20
AY13256	Mercury, Total by CVAA	mg/L	0.0000606	0.0005	0.004	0.00337	0.00343	0.00370	0.0034 to 0.0046	84.2	70 to 130	1.54	20
AY13256	Boron, Total	mg/L	0.000523	0.044	1.00	1.03	1.02	1.03	0.85 to 1.15	103	70 to 130	0.566	20
AY13256	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0924	0.0918	0.0955	0.085 to 0.115	92.4	70 to 130	0.674	20
AY13256	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0882	0.0864	0.0896	0.085 to 0.115	88.2	70 to 130	2.03	20
AY13256	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.181	0.175	0.0942	0.085 to 0.115	93.1	70 to 130	3.16	20
AY13256	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0912	0.0958	0.085 to 0.115	93.0	70 to 130	1.94	20
AY13256	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0926	0.0948	0.0981	0.085 to 0.115	92.6	70 to 130	2.30	20
AY13256	Calcium, Total	mg/L	-0.00215	0.22	5.00	8.17	8.16	5.26	4.25 to 5.75	104	70 to 130	0.186	20
AY13256	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0935	0.0932	0.0947	0.085 to 0.115	93.5	70 to 130	0.374	20
AY13256	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0890	0.0883	0.0991	0.085 to 0.115	89.0	70 to 130	0.749	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY13256

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec			
				Limit			Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AY13260	Solids, Dissolved	mg/L	3.00	25			153	59.0	40 to 60			0.326	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY13257

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0228	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	9.12	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	50.0	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/208	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY13257

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike	MS				Limit	Rec	Limit	Prec	
AY13262	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0968	0.0969	0.0996	0.085 to 0.115	96.8	70 to 130	0.0742	20	
AY13262	Mercury, Total by CVAA	mg/L	0.0000623	0.0005	0.004	0.00349	0.00349	0.00362	0.0034 to 0.0046	87.2	70 to 130	0.0888	20	
AY13262	Lithium, Total	mg/L	0.0000637	0.022	0.20	0.199	0.198	0.194	0.17 to 0.23	99.5	70 to 130	0.461	20	
AY13262	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0922	0.0940	0.0947	0.085 to 0.115	92.2	70 to 130	2.01	20	
AY13262	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0889	0.0873	0.0896	0.085 to 0.115	88.9	70 to 130	1.80	20	
AY13262	Boron, Total	mg/L	0.000438	0.044	1.00	1.00	1.01	0.995	0.85 to 1.15	100	70 to 130	0.232	20	
AY13262	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0922	0.0949	0.0981	0.085 to 0.115	92.2	70 to 130	2.82	20	
AY13262	Calcium, Total	mg/L	-0.00133	0.22	5.00	5.22	5.19	5.19	4.25 to 5.75	104	70 to 130	0.584	20	
AY13262	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0927	0.0958	0.085 to 0.115	93.0	70 to 130	0.333	20	
AY13262	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0943	0.0914	0.0955	0.085 to 0.115	94.3	70 to 130	3.03	20	
AY13262	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0885	0.0892	0.0907	0.085 to 0.115	88.5	70 to 130	0.810	20	
AY13262	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0973	0.0999	0.101	0.085 to 0.115	97.3	70 to 130	2.68	20	
AY13262	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0877	0.0895	0.0943	0.085 to 0.115	87.7	70 to 130	2.01	20	
AY13262	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.0906	0.0917	0.0942	0.085 to 0.115	90.6	70 to 130	1.21	20	
AY13262	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0885	0.0885	0.0991	0.085 to 0.115	88.5	70 to 130	0.0152	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 05-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY13257

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13260	Solids, Dissolved	mg/L	3.00	25			153	59.0	40 to 60		0.326	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY13258

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0892	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	0.102	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	9.05	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00712	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	153	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY13258

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec	Limit
			MB	Limit						Rec	Limit		
AY13262	Mercury, Total by CVAA	mg/L	0.0000623	0.0005	0.004	0.00349	0.00349	0.00362	0.0034 to 0.0046	87.2	70 to 130	0.0888	20
AY13262	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0968	0.0969	0.0996	0.085 to 0.115	96.8	70 to 130	0.0742	20
AY13262	Lithium, Total	mg/L	0.0000637	0.022	0.20	0.199	0.198	0.194	0.17 to 0.23	99.5	70 to 130	0.461	20
AY13262	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0922	0.0940	0.0947	0.085 to 0.115	92.2	70 to 130	2.01	20
AY13262	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0889	0.0873	0.0896	0.085 to 0.115	88.9	70 to 130	1.80	20
AY13262	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0877	0.0895	0.0943	0.085 to 0.115	87.7	70 to 130	2.01	20
AY13262	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.0906	0.0917	0.0942	0.085 to 0.115	90.6	70 to 130	1.21	20
AY13262	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0885	0.0885	0.0991	0.085 to 0.115	88.5	70 to 130	0.0152	20
AY13262	Boron, Total	mg/L	0.000438	0.044	1.00	1.00	1.01	0.995	0.85 to 1.15	100	70 to 130	0.232	20
AY13262	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0922	0.0949	0.0981	0.085 to 0.115	92.2	70 to 130	2.82	20
AY13262	Calcium, Total	mg/L	-0.00133	0.22	5.00	5.22	5.19	5.19	4.25 to 5.75	104	70 to 130	0.584	20
AY13262	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0927	0.0958	0.085 to 0.115	93.0	70 to 130	0.333	20
AY13262	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0943	0.0914	0.0955	0.085 to 0.115	94.3	70 to 130	3.03	20
AY13262	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0885	0.0892	0.0907	0.085 to 0.115	88.5	70 to 130	0.810	20
AY13262	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0973	0.0999	0.101	0.085 to 0.115	97.3	70 to 130	2.68	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY13258

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec			
				Limit			Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AY13260	Solids, Dissolved	mg/L	3.00	25			153	59.0	40 to 60			0.326	5

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Expiration: June 30, 2019

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Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY13259

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	0.0372	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0640	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	1.01	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		10.15	1.015	5.075	167	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0240	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	1.06	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0101	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		50	932	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY13259

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY13262	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0968	0.0969	0.0996	0.085 to 0.115	96.8	70 to 130	0.0742	20
AY13262	Lithium, Total	mg/L	0.0000637	0.022	0.20	0.199	0.198	0.194	0.17 to 0.23	99.5	70 to 130	0.461	20
AY13262	Boron, Total	mg/L	0.000438	0.044	1.00	1.00	1.01	0.995	0.85 to 1.15	100	70 to 130	0.232	20
AY13262	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0922	0.0949	0.0981	0.085 to 0.115	92.2	70 to 130	2.82	20
AY13262	Calcium, Total	mg/L	-0.00133	0.22	5.00	5.22	5.19	5.19	4.25 to 5.75	104	70 to 130	0.584	20
AY13262	Mercury, Total by CVAA	mg/L	0.0000623	0.0005	0.004	0.00349	0.00349	0.00362	0.0034 to 0.0046	87.2	70 to 130	0.0888	20
AY13262	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0922	0.0940	0.0947	0.085 to 0.115	92.2	70 to 130	2.01	20
AY13262	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0889	0.0873	0.0896	0.085 to 0.115	88.9	70 to 130	1.80	20
AY13262	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0877	0.0895	0.0943	0.085 to 0.115	87.7	70 to 130	2.01	20
AY13262	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.0906	0.0917	0.0942	0.085 to 0.115	90.6	70 to 130	1.21	20
AY13262	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0885	0.0885	0.0991	0.085 to 0.115	88.5	70 to 130	0.0152	20
AY13262	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0927	0.0958	0.085 to 0.115	93.0	70 to 130	0.333	20
AY13262	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0943	0.0914	0.0955	0.085 to 0.115	94.3	70 to 130	3.03	20
AY13262	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0885	0.0892	0.0907	0.085 to 0.115	88.5	70 to 130	0.810	20
AY13262	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0973	0.0999	0.101	0.085 to 0.115	97.3	70 to 130	2.68	20

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY13259

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
				Limit			Duplicate	LCS	Limit	Rec	Limit	
AY13260	Solids, Dissolved	mg/L	3.00	25			153	59.0	40 to 60		0.326	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-25 Dup

Laboratory ID Number: AY13260

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	0.0928	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	0.104	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	9.11	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	J 0.00745	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	154	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-25 Dup

Laboratory ID Number: AY13260

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY13262	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0968	0.0969	0.0996	0.085 to 0.115	96.8	70 to 130	0.0742	20
AY13262	Lithium, Total	mg/L	0.0000637	0.022	0.20	0.199	0.198	0.194	0.17 to 0.23	99.5	70 to 130	0.461	20
AY13262	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0922	0.0940	0.0947	0.085 to 0.115	92.2	70 to 130	2.01	20
AY13262	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0889	0.0873	0.0896	0.085 to 0.115	88.9	70 to 130	1.80	20
AY13262	Mercury, Total by CVAA	mg/L	0.0000623	0.0005	0.004	0.00349	0.00349	0.00362	0.0034 to 0.0046	87.2	70 to 130	0.0888	20
AY13262	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0877	0.0895	0.0943	0.085 to 0.115	87.7	70 to 130	2.01	20
AY13262	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.0906	0.0917	0.0942	0.085 to 0.115	90.6	70 to 130	1.21	20
AY13262	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0885	0.0885	0.0991	0.085 to 0.115	88.5	70 to 130	0.0152	20
AY13262	Boron, Total	mg/L	0.000438	0.044	1.00	1.00	1.01	0.995	0.85 to 1.15	100	70 to 130	0.232	20
AY13262	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0922	0.0949	0.0981	0.085 to 0.115	92.2	70 to 130	2.82	20
AY13262	Calcium, Total	mg/L	-0.00133	0.22	5.00	5.22	5.19	5.19	4.25 to 5.75	104	70 to 130	0.584	20
AY13262	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0927	0.0958	0.085 to 0.115	93.0	70 to 130	0.333	20
AY13262	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0943	0.0914	0.0955	0.085 to 0.115	94.3	70 to 130	3.03	20
AY13262	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0885	0.0892	0.0907	0.085 to 0.115	88.5	70 to 130	0.810	20
AY13262	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0973	0.0999	0.101	0.085 to 0.115	97.3	70 to 130	2.68	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond - MW-25 Dup

Laboratory ID Number: AY13260

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY13260	Solids, Dissolved	mg/L	3.00	25			153	59.0	40 to 60			0.326	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13261

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13261

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY13262	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0968	0.0969	0.0996	0.085 to 0.115	96.8	70 to 130	0.0742	20
AY13262	Mercury, Total by CVAA	mg/L	0.0000623	0.0005	0.004	0.00349	0.00349	0.00362	0.0034 to 0.0046	87.2	70 to 130	0.0888	20
AY13262	Lithium, Total	mg/L	0.0000637	0.022	0.20	0.199	0.198	0.194	0.17 to 0.23	99.5	70 to 130	0.461	20
AY13262	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0922	0.0940	0.0947	0.085 to 0.115	92.2	70 to 130	2.01	20
AY13262	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0889	0.0873	0.0896	0.085 to 0.115	88.9	70 to 130	1.80	20
AY13262	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0927	0.0958	0.085 to 0.115	93.0	70 to 130	0.333	20
AY13262	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0943	0.0914	0.0955	0.085 to 0.115	94.3	70 to 130	3.03	20
AY13262	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0885	0.0892	0.0907	0.085 to 0.115	88.5	70 to 130	0.810	20
AY13262	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0973	0.0999	0.101	0.085 to 0.115	97.3	70 to 130	2.68	20
AY13262	Boron, Total	mg/L	0.000438	0.044	1.00	1.00	1.01	0.995	0.85 to 1.15	100	70 to 130	0.232	20
AY13262	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0922	0.0949	0.0981	0.085 to 0.115	92.2	70 to 130	2.82	20
AY13262	Calcium, Total	mg/L	-0.00133	0.22	5.00	5.22	5.19	5.19	4.25 to 5.75	104	70 to 130	0.584	20
AY13262	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0877	0.0895	0.0943	0.085 to 0.115	87.7	70 to 130	2.01	20
AY13262	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.0906	0.0917	0.0942	0.085 to 0.115	90.6	70 to 130	1.21	20
AY13262	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0885	0.0885	0.0991	0.085 to 0.115	88.5	70 to 130	0.0152	20

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Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY13261

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY13260	Solids, Dissolved	mg/L	3.00		25			153	59.0		40 to 60			0.326		5

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY13262

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	6/12/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/11/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	6/12/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	6/12/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	6/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	6/15/2018	SM 2540C		1			6/12/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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Comments:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY13262

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY13262	Arsenic, Total	mg/L	0.0000222	0.0022	0.10	0.0968	0.0969	0.0996	0.085 to 0.115	96.8	70 to 130	0.0742	20
AY13262	Lithium, Total	mg/L	0.0000637	0.022	0.20	0.199	0.198	0.194	0.17 to 0.23	99.5	70 to 130	0.461	20
AY13262	Mercury, Total by CVAA	mg/L	0.0000623	0.0005	0.004	0.00349	0.00349	0.00362	0.0034 to 0.0046	87.2	70 to 130	0.0888	20
AY13262	Chromium, Total	mg/L	-0.0000333	0.0044	0.10	0.0922	0.0940	0.0947	0.085 to 0.115	92.2	70 to 130	2.01	20
AY13262	Molybdenum, Total	mg/L	0.00000774	0.0044	0.10	0.0889	0.0873	0.0896	0.085 to 0.115	88.9	70 to 130	1.80	20
AY13262	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0930	0.0927	0.0958	0.085 to 0.115	93.0	70 to 130	0.333	20
AY13262	Cobalt, Total	mg/L	0.0000193	0.0044	0.10	0.0943	0.0914	0.0955	0.085 to 0.115	94.3	70 to 130	3.03	20
AY13262	Lead, Total	mg/L	0.0000137	0.0022	0.10	0.0885	0.0892	0.0907	0.085 to 0.115	88.5	70 to 130	0.810	20
AY13262	Selenium, Total	mg/L	0.0000121	0.0044	0.10	0.0973	0.0999	0.101	0.085 to 0.115	97.3	70 to 130	2.68	20
AY13262	Boron, Total	mg/L	0.000438	0.044	1.00	1.00	1.01	0.995	0.85 to 1.15	100	70 to 130	0.232	20
AY13262	Cadmium, Total	mg/L	0.00000512	0.00066	0.10	0.0922	0.0949	0.0981	0.085 to 0.115	92.2	70 to 130	2.82	20
AY13262	Calcium, Total	mg/L	-0.00133	0.22	5.00	5.22	5.19	5.19	4.25 to 5.75	104	70 to 130	0.584	20
AY13262	Antimony, Total	mg/L	0.0000555	0.00132	0.10	0.0877	0.0895	0.0943	0.085 to 0.115	87.7	70 to 130	2.01	20
AY13262	Barium, Total	mg/L	-0.00000844	0.0044	0.10	0.0906	0.0917	0.0942	0.085 to 0.115	90.6	70 to 130	1.21	20
AY13262	Thallium, Total	mg/L	0.00000647	0.00044	0.10	0.0885	0.0885	0.0991	0.085 to 0.115	88.5	70 to 130	0.0152	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 06-Jun-18
 Customer ID:
 Delivery Date: 07-Jun-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY13262

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY13260	Solids, Dissolved	mg/L	3.00	25			153	59.0	40 to 60		0.326	5

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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.
E	Estimated reported value exceeded calibration range.
J	Reported value is an estimate because concentration is less than reporting limit.
N	Organic constituents tentatively identified. Confirmation is needed.
R	Matrix spike recovery is out of range.
U	Compound was analyzed, but not detected.
P	Precision is out of range.
C	Analyte was verified by re-analysis.
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.
L	Check standard is outside of the required specification limit.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
F	Water Field Group (WFG) qualifier; see comments for more information



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **06/06/2018 15:55**

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	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-24	6/5/18	10:25	3	Groundwater		AY13248
MW-23	06/05/2018	11:13	3	Groundwater		AY13249
MW-29	06/05/2018	12:29	3	Groundwater		AY13250
MW-30	06/05/2018	13:18	3	Groundwater		AY13251
MW-28	06/05/2018	14:05	3	Groundwater		AY13252
MW-27	06/05/2018	14:44	3	Groundwater		AY13253
MW-26	06/05/2018	15:23	3	Groundwater		AY13254
MW-32	06/05/2018	16:23	3	Groundwater		AY13255
MW-33	06/05/2018	17:08	3	Groundwater		AY13256
MW-31	06/05/2018	18:04	3	Groundwater		AY13257
MW-25	06/06/2018	09:27	3	Groundwater		AY13258
MW-14	06/06/2018	11:25	3	Groundwater		AY13259
MW-25DUP	06/06/2018	09:27	3	Sample Duplicate		AY13260
FB-2	06/06/2018	09:18	3	Field Blank		AY13261
EB-1	06/06/2018	12:05	3	Equipment Blank		AY13262

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.06.06 16:23:11 -05'00'</small>	06/06/2018 16:23

SmarTroll ID 4696-23443-3-2
 Turbidity ID 5160-26211-1-1

All metals and radiological bottles have pH < 2
 Cooler Temp 3.3 degrees C
 Thermometer ID 6603-34819-1-1
 pH Strip ID 6803-35848-20-9



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **06/06/2018 17:00**

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Site Representative			Requested By	
	Jason Arledge			Greg Dyer	
Collector		Ben Rothschild	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	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-1	6/4/18	14:00	3	Groundwater		AY13233
MW-2	06/04/2018	15:40	3	Groundwater		AY13234
MW-2 DUP	06/04/2018	15:40	3	Sample Duplicate		AY13235
MW-3	06/04/2018	17:08	3	Groundwater		AY13236
FB-1	06/04/2018	17:30	3	Field Blank		AY13237
MW-5	06/05/2018	10:30	3	Groundwater		AY13238
MW-6	06/05/2018	11:32	3	Groundwater		AY13239
MW-7	06/05/2018	13:03	3	Groundwater		AY13240
MW-8	06/05/2018	14:25	3	Groundwater		AY13241
MW-9	06/05/2018	15:34	3	Groundwater		AY13242
MW-10	06/05/2018	16:37	3	Groundwater		AY13243
MW-11	06/05/2018	17:53	3	Groundwater		AY13244
MW-21	06/06/2018	09:51	3	Groundwater		AY13245
MW-12	06/06/2018	11:00	3	Groundwater		AY13246
MW-13	06/06/2018	12:08	3	Groundwater		AY13247

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.06.06 16:36:16 -05'00'</small>	06/06/2018 16:36

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Cooler Temp	3.0 degrees C	
Thermometer ID	6603-34819-1-1	
pH Strip ID	5881-30155-10-9	



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **06/06/2018 15:54**

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 Anions	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium Duplicate MW-29. All samples outsourced to Test America.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-24	6/5/18	10:25	2	Groundwater		AY13278
MW-23	06/05/2018	11:13	2	Groundwater		AY13279
MW-29	06/05/2018	12:29	4	Groundwater		AY13280
MW-30	06/05/2018	13:18	2	Groundwater		AY13281
MW-28	06/05/2018	14:05	2	Groundwater		AY13282
MW-27	06/05/2018	14:44	2	Groundwater		AY13283
MW-26	06/05/2018	15:23	2	Groundwater		AY13284
MW-32	06/05/2018	16:23	2	Groundwater		AY13285
MW-33	06/05/2018	17:08	2	Groundwater		AY13286
MW-31	06/05/2018	18:04	2	Groundwater		AY13287
MW-25	06/06/2018	09:27	2	Groundwater		AY13288
MW-14	06/06/2018	11:25	2	Groundwater		AY13289
MW-25DUP	06/06/2018	09:27	2	Sample Duplicate		AY13290
FB-2	06/06/2018	09:18	2	Field Blank		AY13291
EB-1	06/06/2018	12:05	2	Equipment Blank		AY13292

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.06.06 16:21:46 -05'00'</small>	06/06/2018 16:21

SmarTroll ID 4696-23443-3-2
 Turbidity ID 5160-26211-1-1

All metals and radiological bottles have pH < 2
 Cooler Temp 3.3 degrees C
 Thermometer ID 6603-34819-1-1
 pH Strip ID 6803-35849-20-9



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **06/06/2018 17:00**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Ben Rothschild	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	Anions	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium Duplicate Collected at MW-21. All samples outsourced to Test America.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	6/4/18	14:00	2	Groundwater		AY13263
MW-2	06/04/2018	15:40	2	Groundwater		AY13264
MW-2 DUP	06/04/2018	15:40	2	Sample Duplicate		AY13265
MW-3	06/04/2018	17:08	2	Groundwater		AY13266
FB-1	06/04/2018	17:30	2	Field Blank		AY13267
MW-5	06/05/2018	10:30	2	Groundwater		AY13268
MW-6	06/05/2018	11:32	2	Groundwater		AY13269
MW-7	06/05/2018	13:03	2	Groundwater		AY13270
MW-8	06/05/2018	14:25	2	Groundwater		AY13271
MW-9	06/05/2018	15:34	2	Groundwater		AY13272
MW-10	06/05/2018	16:37	2	Groundwater		AY13273
MW-11	06/05/2018	17:53	2	Groundwater		AY13274
MW-21	06/06/2018	09:51	4	Groundwater		AY13275
MW-12	06/06/2018	11:00	2	Groundwater		AY13276
MW-13	06/06/2018	12:08	2	Groundwater		AY13277

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2018.06.06 16:37:12 -05'00'</small>	06/06/2018 16:37

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Cooler Temp	3.0 degrees C	
Thermometer ID	6603-34819-1-1	
pH Strip ID	5881-30155-10-9	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-154790-1

TestAmerica SDG: Greene County Ash Pond 1153

Client Project/Site: CCR Plant Greene

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

6/21/2018 5:19:28 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Job ID: 400-154790-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-154790-1

General Chemistry

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400855 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 401459 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY13221 MW-17 (400-154790-2), AY13263 MW-1 (400-154790-7), AY13264 MW-2 (400-154790-8), AY13265 MW-2 DUP (400-154790-9), (400-154790-A-7 MS) and (400-154790-A-7 MSD). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 401656 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 401656 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY13222 MW-17 DUP (400-154790-3), AY13223 MW-16 (400-154790-4), AY13224 MW-15 (400-154790-5), AY13268 MW-5 (400-154790-12), AY13269 MW-6 (400-154790-13), AY13270 MW-7 (400-154790-14), AY13273 MW-10 (400-154790-17), AY13274 MW-11 (400-154790-18), AY13277 MW-13 (400-154790-21), AY13278 MW-24 (400-154790-22), (400-154790-A-22 MS), (400-154790-A-22 MSD), AY13288 MW-25 (400-154790-32), AY13289 MW-14 (400-154790-33), AY13290 MW-25 DUP (400-154790-34), (400-155128-J-2), (400-155128-J-2 MS) and (400-155128-J-2 MSD). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 401761 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13220 MW-18

Lab Sample ID: 400-154790-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.17		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	13		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13221 MW-17

Lab Sample ID: 400-154790-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.41		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	230		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13222 MW-17 DUP

Lab Sample ID: 400-154790-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.41		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	250		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13223 MW-16

Lab Sample ID: 400-154790-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.28		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	87		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13224 MW-15

Lab Sample ID: 400-154790-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	160		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13225 FB-3

Lab Sample ID: 400-154790-6

No Detections.

Client Sample ID: AY13263 MW-1

Lab Sample ID: 400-154790-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.070	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	850	F1	150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13264 MW-2

Lab Sample ID: 400-154790-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.090	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	260		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13265 MW-2 DUP

Lab Sample ID: 400-154790-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.090	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	270		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13266 MW-3

Lab Sample ID: 400-154790-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13267 FB-1

Lab Sample ID: 400-154790-11

No Detections.

Client Sample ID: AY13268 MW-5

Lab Sample ID: 400-154790-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.24		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	36		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13269 MW-6

Lab Sample ID: 400-154790-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.23		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	98		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13270 MW-7

Lab Sample ID: 400-154790-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	49		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	390		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13271 MW-8

Lab Sample ID: 400-154790-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	38		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	25		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13272 MW-9

Lab Sample ID: 400-154790-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	22		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13273 MW-10

Lab Sample ID: 400-154790-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.24		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	39		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13274 MW-11

Lab Sample ID: 400-154790-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.16		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	79		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13275 MW-21

Lab Sample ID: 400-154790-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	81		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13276 MW-12

Lab Sample ID: 400-154790-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	62		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13277 MW-13

Lab Sample ID: 400-154790-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	48		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13278 MW-24

Lab Sample ID: 400-154790-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	97	F1 F2	25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13279 MW-23

Lab Sample ID: 400-154790-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.7	J	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.090	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	14		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13280 MW-29

Lab Sample ID: 400-154790-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8	J	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13280 MW-29 (Continued)

Lab Sample ID: 400-154790-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13281 MW-30

Lab Sample ID: 400-154790-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY13282 MW-28

Lab Sample ID: 400-154790-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.2	J	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.3		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13283 MW-27

Lab Sample ID: 400-154790-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9	J	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13284 MW-26

Lab Sample ID: 400-154790-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.070	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	9.3		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13285 MW-32

Lab Sample ID: 400-154790-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13286 MW-33

Lab Sample ID: 400-154790-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	17		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13287 MW-31

Lab Sample ID: 400-154790-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.7	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13288 MW-25

Lab Sample ID: 400-154790-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13288 MW-25 (Continued)

Lab Sample ID: 400-154790-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	47		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13289 MW-14

Lab Sample ID: 400-154790-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.15		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	450		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13290 MW-25 DUP

Lab Sample ID: 400-154790-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	48		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY13291 FB-2

Lab Sample ID: 400-154790-35

No Detections.

Client Sample ID: AY13292 EB-1

Lab Sample ID: 400-154790-36

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Method	Method Description	Protocol	Laboratory
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-154790-1	AY13220 MW-18	Water	06/05/18 10:19	06/08/18 09:17
400-154790-2	AY13221 MW-17	Water	06/05/18 11:14	06/08/18 09:17
400-154790-3	AY13222 MW-17 DUP	Water	06/05/18 11:14	06/08/18 09:17
400-154790-4	AY13223 MW-16	Water	06/05/18 12:57	06/08/18 09:17
400-154790-5	AY13224 MW-15	Water	06/05/18 14:02	06/08/18 09:17
400-154790-6	AY13225 FB-3	Water	06/05/18 14:15	06/08/18 09:17
400-154790-7	AY13263 MW-1	Water	06/04/18 14:00	06/08/18 09:17
400-154790-8	AY13264 MW-2	Water	06/04/18 15:40	06/08/18 09:17
400-154790-9	AY13265 MW-2 DUP	Water	06/04/18 15:40	06/08/18 09:17
400-154790-10	AY13266 MW-3	Water	06/04/18 17:08	06/08/18 09:17
400-154790-11	AY13267 FB-1	Water	06/04/18 17:30	06/08/18 09:17
400-154790-12	AY13268 MW-5	Water	06/05/18 10:30	06/08/18 09:17
400-154790-13	AY13269 MW-6	Water	06/05/18 11:32	06/08/18 09:17
400-154790-14	AY13270 MW-7	Water	06/05/18 13:03	06/08/18 09:17
400-154790-15	AY13271 MW-8	Water	06/05/18 14:25	06/08/18 09:17
400-154790-16	AY13272 MW-9	Water	06/05/18 15:34	06/08/18 09:17
400-154790-17	AY13273 MW-10	Water	06/05/18 16:37	06/08/18 09:17
400-154790-18	AY13274 MW-11	Water	06/05/18 17:53	06/08/18 09:17
400-154790-19	AY13275 MW-21	Water	06/06/18 09:51	06/08/18 09:17
400-154790-20	AY13276 MW-12	Water	06/06/18 11:00	06/08/18 09:17
400-154790-21	AY13277 MW-13	Water	06/06/18 12:08	06/08/18 09:17
400-154790-22	AY13278 MW-24	Water	06/05/18 10:25	06/08/18 09:17
400-154790-23	AY13279 MW-23	Water	06/05/18 11:13	06/08/18 09:17
400-154790-24	AY13280 MW-29	Water	06/05/18 12:29	06/08/18 09:17
400-154790-25	AY13281 MW-30	Water	06/05/18 13:18	06/08/18 09:17
400-154790-26	AY13282 MW-28	Water	06/05/18 14:05	06/08/18 09:17
400-154790-27	AY13283 MW-27	Water	06/05/18 14:44	06/08/18 09:17
400-154790-28	AY13284 MW-26	Water	06/05/18 15:23	06/08/18 09:17
400-154790-29	AY13285 MW-32	Water	06/05/18 16:23	06/08/18 09:17
400-154790-30	AY13286 MW-33	Water	06/05/18 17:08	06/08/18 09:17
400-154790-31	AY13287 MW-31	Water	06/05/18 18:04	06/08/18 09:17
400-154790-32	AY13288 MW-25	Water	06/06/18 09:27	06/08/18 09:17
400-154790-33	AY13289 MW-14	Water	06/06/18 11:25	06/08/18 09:17
400-154790-34	AY13290 MW-25 DUP	Water	06/06/18 09:27	06/08/18 09:17
400-154790-35	AY13291 FB-2	Water	06/06/18 09:18	06/08/18 09:17
400-154790-36	AY13292 EB-1	Water	06/06/18 12:05	06/08/18 09:17

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13220 MW-18

Date Collected: 06/05/18 10:19

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	0.60	mg/L			06/18/18 08:20	1
Fluoride	0.17		0.10	0.032	mg/L			06/12/18 14:31	1
Sulfate	13		5.0	1.4	mg/L			06/18/18 10:45	1

Client Sample ID: AY13221 MW-17

Date Collected: 06/05/18 11:14

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.0	0.60	mg/L			06/18/18 08:20	1
Fluoride	0.41		0.10	0.032	mg/L			06/12/18 14:33	1
Sulfate	230		100	28	mg/L			06/18/18 11:48	20

Client Sample ID: AY13222 MW-17 DUP

Date Collected: 06/05/18 11:14

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			06/18/18 08:26	1
Fluoride	0.41		0.10	0.032	mg/L			06/12/18 15:10	1
Sulfate	250		50	14	mg/L			06/19/18 13:32	10

Client Sample ID: AY13223 MW-16

Date Collected: 06/05/18 12:57

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.0	0.60	mg/L			06/18/18 08:26	1
Fluoride	0.28		0.10	0.032	mg/L			06/12/18 15:16	1
Sulfate	87		25	7.0	mg/L			06/19/18 13:32	5

Client Sample ID: AY13224 MW-15

Date Collected: 06/05/18 14:02

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			06/18/18 08:26	1
Fluoride	0.13		0.10	0.032	mg/L			06/12/18 15:19	1
Sulfate	160		50	14	mg/L			06/19/18 13:32	10

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13225 FB-3

Date Collected: 06/05/18 14:15

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/18/18 08:26	1
Fluoride	<0.032		0.10	0.032	mg/L			06/12/18 15:23	1
Sulfate	<1.4		5.0	1.4	mg/L			06/19/18 10:39	1

Client Sample ID: AY13263 MW-1

Date Collected: 06/04/18 14:00

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		2.0	0.60	mg/L			06/18/18 08:20	1
Fluoride	0.070	J	0.10	0.032	mg/L			06/12/18 14:18	1
Sulfate	850	F1	150	42	mg/L			06/18/18 11:41	30

Client Sample ID: AY13264 MW-2

Date Collected: 06/04/18 15:40

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.0	0.60	mg/L			06/18/18 08:20	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/12/18 14:20	1
Sulfate	260		100	28	mg/L			06/18/18 11:45	20

Client Sample ID: AY13265 MW-2 DUP

Date Collected: 06/04/18 15:40

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.0	0.60	mg/L			06/18/18 08:20	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/12/18 14:23	1
Sulfate	270		100	28	mg/L			06/18/18 11:48	20

Client Sample ID: AY13266 MW-3

Date Collected: 06/04/18 17:08

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-10

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		2.0	0.60	mg/L			06/18/18 08:20	1
Fluoride	0.10		0.10	0.032	mg/L			06/12/18 14:25	1
Sulfate	1.4	J	5.0	1.4	mg/L			06/18/18 10:45	1

Client Sample ID: AY13267 FB-1

Date Collected: 06/04/18 17:30

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-11

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/18/18 08:20	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13267 FB-1

Date Collected: 06/04/18 17:30

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-11

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/12/18 14:29	1
Sulfate	<1.4		5.0	1.4	mg/L			06/18/18 10:45	1

Client Sample ID: AY13268 MW-5

Date Collected: 06/05/18 10:30

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-12

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.0	0.60	mg/L			06/18/18 09:42	1
Fluoride	0.24		0.10	0.032	mg/L			06/12/18 15:25	1
Sulfate	36		10	2.8	mg/L			06/19/18 13:32	2

Client Sample ID: AY13269 MW-6

Date Collected: 06/05/18 11:32

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-13

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		2.0	0.60	mg/L			06/18/18 09:42	1
Fluoride	0.23		0.10	0.032	mg/L			06/12/18 15:28	1
Sulfate	98		25	7.0	mg/L			06/19/18 13:36	5

Client Sample ID: AY13270 MW-7

Date Collected: 06/05/18 13:03

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-14

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49		2.0	0.60	mg/L			06/18/18 09:42	1
Fluoride	0.080	J	0.10	0.032	mg/L			06/12/18 15:30	1
Sulfate	390		100	28	mg/L			06/19/18 14:48	20

Client Sample ID: AY13271 MW-8

Date Collected: 06/05/18 14:25

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38		2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	0.11		0.10	0.032	mg/L			06/12/18 15:32	1
Sulfate	25		5.0	1.4	mg/L			06/19/18 10:39	1

Client Sample ID: AY13272 MW-9

Date Collected: 06/05/18 15:34

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-16

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	0.19		0.10	0.032	mg/L			06/12/18 15:40	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13272 MW-9

Date Collected: 06/05/18 15:34
 Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-16

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	22		5.0	1.4	mg/L			06/19/18 10:39	1

Client Sample ID: AY13273 MW-10

Date Collected: 06/05/18 16:37
 Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-17

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	0.24		0.10	0.032	mg/L			06/12/18 15:45	1
Sulfate	39		10	2.8	mg/L			06/19/18 13:40	2

Client Sample ID: AY13274 MW-11

Date Collected: 06/05/18 17:53
 Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-18

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	0.16		0.10	0.032	mg/L			06/12/18 15:47	1
Sulfate	79		25	7.0	mg/L			06/19/18 13:40	5

Client Sample ID: AY13275 MW-21

Date Collected: 06/06/18 09:51
 Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-19

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	0.19		0.10	0.032	mg/L			06/12/18 15:49	1
Sulfate	81		25	7.0	mg/L			06/20/18 09:07	5

Client Sample ID: AY13276 MW-12

Date Collected: 06/06/18 11:00
 Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-20

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	0.19		0.10	0.032	mg/L			06/12/18 15:52	1
Sulfate	62		25	7.0	mg/L			06/20/18 09:07	5

Client Sample ID: AY13277 MW-13

Date Collected: 06/06/18 12:08
 Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-21

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.1		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	0.13		0.10	0.032	mg/L			06/12/18 15:54	1
Sulfate	48		10	2.8	mg/L			06/20/18 09:53	2

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13278 MW-24

Date Collected: 06/05/18 10:25

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-22

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/12/18 15:56	1
Sulfate	97	F1 F2	25	7.0	mg/L			06/19/18 13:36	5

Client Sample ID: AY13279 MW-23

Date Collected: 06/05/18 11:13

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-23

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7	J	2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/12/18 15:59	1
Sulfate	14		5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample ID: AY13280 MW-29

Date Collected: 06/05/18 12:29

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-24

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8	J	2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	<0.032		0.10	0.032	mg/L			06/12/18 16:02	1
Sulfate	1.4	J	5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample ID: AY13281 MW-30

Date Collected: 06/05/18 13:18

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-25

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		2.0	0.60	mg/L			06/18/18 09:45	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 13:59	1
Sulfate	<1.4		5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample ID: AY13282 MW-28

Date Collected: 06/05/18 14:05

Date Received: 06/08/18 09:17

Lab Sample ID: 400-154790-26

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2	J	2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:06	1
Sulfate	8.3		5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13283 MW-27

Lab Sample ID: 400-154790-27

Date Collected: 06/05/18 14:44

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9	J	2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:09	1
Sulfate	2.1	J	5.0	1.4	mg/L			06/19/18 10:32	1

Client Sample ID: AY13284 MW-26

Lab Sample ID: 400-154790-28

Date Collected: 06/05/18 15:23

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	0.070	J	0.10	0.032	mg/L			06/13/18 14:12	1
Sulfate	9.3		5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample ID: AY13285 MW-32

Lab Sample ID: 400-154790-29

Date Collected: 06/05/18 16:23

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.8		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/13/18 14:15	1
Sulfate	3.1	J	5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample ID: AY13286 MW-33

Lab Sample ID: 400-154790-30

Date Collected: 06/05/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	0.10		0.10	0.032	mg/L			06/13/18 14:19	1
Sulfate	17		5.0	1.4	mg/L			06/19/18 10:43	1

Client Sample ID: AY13287 MW-31

Lab Sample ID: 400-154790-31

Date Collected: 06/05/18 18:04

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		2.0	0.60	mg/L			06/18/18 09:52	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:21	1
Sulfate	3.7	J	5.0	1.4	mg/L			06/20/18 08:28	1

Client Sample ID: AY13288 MW-25

Lab Sample ID: 400-154790-32

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		2.0	0.60	mg/L			06/20/18 12:10	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13288 MW-25

Lab Sample ID: 400-154790-32

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:24	1
Sulfate	47		10	2.8	mg/L			06/20/18 09:53	2

Client Sample ID: AY13289 MW-14

Lab Sample ID: 400-154790-33

Date Collected: 06/06/18 11:25

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			06/20/18 12:13	1
Fluoride	0.15		0.10	0.032	mg/L			06/13/18 14:32	1
Sulfate	450		100	28	mg/L			06/20/18 09:11	20

Client Sample ID: AY13290 MW-25 DUP

Lab Sample ID: 400-154790-34

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		2.0	0.60	mg/L			06/20/18 12:10	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:38	1
Sulfate	48		10	2.8	mg/L			06/20/18 09:53	2

Client Sample ID: AY13291 FB-2

Lab Sample ID: 400-154790-35

Date Collected: 06/06/18 09:18

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/20/18 12:12	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:40	1
Sulfate	<1.4		5.0	1.4	mg/L			06/20/18 08:28	1

Client Sample ID: AY13292 EB-1

Lab Sample ID: 400-154790-36

Date Collected: 06/06/18 12:05

Matrix: Water

Date Received: 06/08/18 09:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/20/18 12:13	1
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 14:43	1
Sulfate	<1.4		5.0	1.4	mg/L			06/20/18 08:35	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
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

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13220 MW-18

Lab Sample ID: 400-154790-1

Date Collected: 06/05/18 10:19

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:31	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401459	06/18/18 10:45	RRC	TAL PEN

Client Sample ID: AY13221 MW-17

Lab Sample ID: 400-154790-2

Date Collected: 06/05/18 11:14

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:33	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	401459	06/18/18 11:48	RRC	TAL PEN

Client Sample ID: AY13222 MW-17 DUP

Lab Sample ID: 400-154790-3

Date Collected: 06/05/18 11:14

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:26	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:10	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	401656	06/19/18 13:32	RRC	TAL PEN

Client Sample ID: AY13223 MW-16

Lab Sample ID: 400-154790-4

Date Collected: 06/05/18 12:57

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:26	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:16	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	401656	06/19/18 13:32	RRC	TAL PEN

Client Sample ID: AY13224 MW-15

Lab Sample ID: 400-154790-5

Date Collected: 06/05/18 14:02

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:26	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:19	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	401656	06/19/18 13:32	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13225 FB-3

Lab Sample ID: 400-154790-6

Date Collected: 06/05/18 14:15

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:26	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:23	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:39	RRC	TAL PEN

Client Sample ID: AY13263 MW-1

Lab Sample ID: 400-154790-7

Date Collected: 06/04/18 14:00

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:18	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	401459	06/18/18 11:41	RRC	TAL PEN

Client Sample ID: AY13264 MW-2

Lab Sample ID: 400-154790-8

Date Collected: 06/04/18 15:40

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:20	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	401459	06/18/18 11:45	RRC	TAL PEN

Client Sample ID: AY13265 MW-2 DUP

Lab Sample ID: 400-154790-9

Date Collected: 06/04/18 15:40

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:23	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	401459	06/18/18 11:48	RRC	TAL PEN

Client Sample ID: AY13266 MW-3

Lab Sample ID: 400-154790-10

Date Collected: 06/04/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:25	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401459	06/18/18 10:45	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13267 FB-1

Lab Sample ID: 400-154790-11

Date Collected: 06/04/18 17:30

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401408	06/18/18 08:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400855	06/12/18 14:29	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401459	06/18/18 10:45	RRC	TAL PEN

Client Sample ID: AY13268 MW-5

Lab Sample ID: 400-154790-12

Date Collected: 06/05/18 10:30

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:42	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:25	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	401656	06/19/18 13:32	RRC	TAL PEN

Client Sample ID: AY13269 MW-6

Lab Sample ID: 400-154790-13

Date Collected: 06/05/18 11:32

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:42	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:28	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	401656	06/19/18 13:36	RRC	TAL PEN

Client Sample ID: AY13270 MW-7

Lab Sample ID: 400-154790-14

Date Collected: 06/05/18 13:03

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:42	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:30	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	401656	06/19/18 14:48	RRC	TAL PEN

Client Sample ID: AY13271 MW-8

Lab Sample ID: 400-154790-15

Date Collected: 06/05/18 14:25

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:32	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:39	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13272 MW-9

Lab Sample ID: 400-154790-16

Date Collected: 06/05/18 15:34

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:40	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:39	RRC	TAL PEN

Client Sample ID: AY13273 MW-10

Lab Sample ID: 400-154790-17

Date Collected: 06/05/18 16:37

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:45	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	401656	06/19/18 13:40	RRC	TAL PEN

Client Sample ID: AY13274 MW-11

Lab Sample ID: 400-154790-18

Date Collected: 06/05/18 17:53

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:47	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	401656	06/19/18 13:40	RRC	TAL PEN

Client Sample ID: AY13275 MW-21

Lab Sample ID: 400-154790-19

Date Collected: 06/06/18 09:51

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:49	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	401761	06/20/18 09:07	RRC	TAL PEN

Client Sample ID: AY13276 MW-12

Lab Sample ID: 400-154790-20

Date Collected: 06/06/18 11:00

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:52	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	401761	06/20/18 09:07	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13277 MW-13

Lab Sample ID: 400-154790-21

Date Collected: 06/06/18 12:08

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:54	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	401761	06/20/18 09:53	RRC	TAL PEN

Client Sample ID: AY13278 MW-24

Lab Sample ID: 400-154790-22

Date Collected: 06/05/18 10:25

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:56	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	401656	06/19/18 13:36	RRC	TAL PEN

Client Sample ID: AY13279 MW-23

Lab Sample ID: 400-154790-23

Date Collected: 06/05/18 11:13

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 15:59	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

Client Sample ID: AY13280 MW-29

Lab Sample ID: 400-154790-24

Date Collected: 06/05/18 12:29

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400872	06/12/18 16:02	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

Client Sample ID: AY13281 MW-30

Lab Sample ID: 400-154790-25

Date Collected: 06/05/18 13:18

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 13:59	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13282 MW-28

Lab Sample ID: 400-154790-26

Date Collected: 06/05/18 14:05

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:06	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

Client Sample ID: AY13283 MW-27

Lab Sample ID: 400-154790-27

Date Collected: 06/05/18 14:44

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:09	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:32	RRC	TAL PEN

Client Sample ID: AY13284 MW-26

Lab Sample ID: 400-154790-28

Date Collected: 06/05/18 15:23

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:12	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

Client Sample ID: AY13285 MW-32

Lab Sample ID: 400-154790-29

Date Collected: 06/05/18 16:23

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:15	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

Client Sample ID: AY13286 MW-33

Lab Sample ID: 400-154790-30

Date Collected: 06/05/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:19	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401656	06/19/18 10:43	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13287 MW-31

Lab Sample ID: 400-154790-31

Date Collected: 06/05/18 18:04

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401422	06/18/18 09:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:21	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401761	06/20/18 08:28	RRC	TAL PEN

Client Sample ID: AY13288 MW-25

Lab Sample ID: 400-154790-32

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401831	06/20/18 12:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:24	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	401761	06/20/18 09:53	RRC	TAL PEN

Client Sample ID: AY13289 MW-14

Lab Sample ID: 400-154790-33

Date Collected: 06/06/18 11:25

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401831	06/20/18 12:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:32	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	401761	06/20/18 09:11	RRC	TAL PEN

Client Sample ID: AY13290 MW-25 DUP

Lab Sample ID: 400-154790-34

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401831	06/20/18 12:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:38	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	401761	06/20/18 09:53	RRC	TAL PEN

Client Sample ID: AY13291 FB-2

Lab Sample ID: 400-154790-35

Date Collected: 06/06/18 09:18

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401831	06/20/18 12:12	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:40	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401761	06/20/18 08:28	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13292 EB-1

Lab Sample ID: 400-154790-36

Date Collected: 06/06/18 12:05

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	401831	06/20/18 12:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	400986	06/13/18 14:43	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	401761	06/20/18 08:35	RRC	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

General Chemistry

Analysis Batch: 400855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-1	AY13220 MW-18	Total/NA	Water	SM 4500 F C	
400-154790-2	AY13221 MW-17	Total/NA	Water	SM 4500 F C	
400-154790-7	AY13263 MW-1	Total/NA	Water	SM 4500 F C	
400-154790-8	AY13264 MW-2	Total/NA	Water	SM 4500 F C	
400-154790-9	AY13265 MW-2 DUP	Total/NA	Water	SM 4500 F C	
400-154790-10	AY13266 MW-3	Total/NA	Water	SM 4500 F C	
400-154790-11	AY13267 FB-1	Total/NA	Water	SM 4500 F C	
MB 400-400855/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-400855/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-154877-E-31 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-154877-E-31 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
240-96587-F-3 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 400872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-3	AY13222 MW-17 DUP	Total/NA	Water	SM 4500 F C	
400-154790-4	AY13223 MW-16	Total/NA	Water	SM 4500 F C	
400-154790-5	AY13224 MW-15	Total/NA	Water	SM 4500 F C	
400-154790-6	AY13225 FB-3	Total/NA	Water	SM 4500 F C	
400-154790-12	AY13268 MW-5	Total/NA	Water	SM 4500 F C	
400-154790-13	AY13269 MW-6	Total/NA	Water	SM 4500 F C	
400-154790-14	AY13270 MW-7	Total/NA	Water	SM 4500 F C	
400-154790-15	AY13271 MW-8	Total/NA	Water	SM 4500 F C	
400-154790-16	AY13272 MW-9	Total/NA	Water	SM 4500 F C	
400-154790-17	AY13273 MW-10	Total/NA	Water	SM 4500 F C	
400-154790-18	AY13274 MW-11	Total/NA	Water	SM 4500 F C	
400-154790-19	AY13275 MW-21	Total/NA	Water	SM 4500 F C	
400-154790-20	AY13276 MW-12	Total/NA	Water	SM 4500 F C	
400-154790-21	AY13277 MW-13	Total/NA	Water	SM 4500 F C	
400-154790-22	AY13278 MW-24	Total/NA	Water	SM 4500 F C	
400-154790-23	AY13279 MW-23	Total/NA	Water	SM 4500 F C	
400-154790-24	AY13280 MW-29	Total/NA	Water	SM 4500 F C	
MB 400-400872/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-400872/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-154790-3 MS	AY13222 MW-17 DUP	Total/NA	Water	SM 4500 F C	
400-154790-3 MSD	AY13222 MW-17 DUP	Total/NA	Water	SM 4500 F C	
400-154790-16 DU	AY13272 MW-9	Total/NA	Water	SM 4500 F C	

Analysis Batch: 400986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-25	AY13281 MW-30	Total/NA	Water	SM 4500 F C	
400-154790-26	AY13282 MW-28	Total/NA	Water	SM 4500 F C	
400-154790-27	AY13283 MW-27	Total/NA	Water	SM 4500 F C	
400-154790-28	AY13284 MW-26	Total/NA	Water	SM 4500 F C	
400-154790-29	AY13285 MW-32	Total/NA	Water	SM 4500 F C	
400-154790-30	AY13286 MW-33	Total/NA	Water	SM 4500 F C	
400-154790-31	AY13287 MW-31	Total/NA	Water	SM 4500 F C	
400-154790-32	AY13288 MW-25	Total/NA	Water	SM 4500 F C	
400-154790-33	AY13289 MW-14	Total/NA	Water	SM 4500 F C	
400-154790-34	AY13290 MW-25 DUP	Total/NA	Water	SM 4500 F C	
400-154790-35	AY13291 FB-2	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

General Chemistry (Continued)

Analysis Batch: 400986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-36	AY13292 EB-1	Total/NA	Water	SM 4500 F C	
MB 400-400986/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-400986/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-154790-25 MS	AY13281 MW-30	Total/NA	Water	SM 4500 F C	
400-154790-25 MSD	AY13281 MW-30	Total/NA	Water	SM 4500 F C	
400-154790-33 DU	AY13289 MW-14	Total/NA	Water	SM 4500 F C	

Analysis Batch: 401408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-1	AY13220 MW-18	Total/NA	Water	SM 4500 CI- E	
400-154790-2	AY13221 MW-17	Total/NA	Water	SM 4500 CI- E	
400-154790-3	AY13222 MW-17 DUP	Total/NA	Water	SM 4500 CI- E	
400-154790-4	AY13223 MW-16	Total/NA	Water	SM 4500 CI- E	
400-154790-5	AY13224 MW-15	Total/NA	Water	SM 4500 CI- E	
400-154790-6	AY13225 FB-3	Total/NA	Water	SM 4500 CI- E	
400-154790-7	AY13263 MW-1	Total/NA	Water	SM 4500 CI- E	
400-154790-8	AY13264 MW-2	Total/NA	Water	SM 4500 CI- E	
400-154790-9	AY13265 MW-2 DUP	Total/NA	Water	SM 4500 CI- E	
400-154790-10	AY13266 MW-3	Total/NA	Water	SM 4500 CI- E	
400-154790-11	AY13267 FB-1	Total/NA	Water	SM 4500 CI- E	
MB 400-401408/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-401408/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-401408/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-154790-1 MS	AY13220 MW-18	Total/NA	Water	SM 4500 CI- E	
400-154790-1 MSD	AY13220 MW-18	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 401422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-12	AY13268 MW-5	Total/NA	Water	SM 4500 CI- E	
400-154790-13	AY13269 MW-6	Total/NA	Water	SM 4500 CI- E	
400-154790-14	AY13270 MW-7	Total/NA	Water	SM 4500 CI- E	
400-154790-15	AY13271 MW-8	Total/NA	Water	SM 4500 CI- E	
400-154790-16	AY13272 MW-9	Total/NA	Water	SM 4500 CI- E	
400-154790-17	AY13273 MW-10	Total/NA	Water	SM 4500 CI- E	
400-154790-18	AY13274 MW-11	Total/NA	Water	SM 4500 CI- E	
400-154790-19	AY13275 MW-21	Total/NA	Water	SM 4500 CI- E	
400-154790-20	AY13276 MW-12	Total/NA	Water	SM 4500 CI- E	
400-154790-21	AY13277 MW-13	Total/NA	Water	SM 4500 CI- E	
400-154790-22	AY13278 MW-24	Total/NA	Water	SM 4500 CI- E	
400-154790-23	AY13279 MW-23	Total/NA	Water	SM 4500 CI- E	
400-154790-24	AY13280 MW-29	Total/NA	Water	SM 4500 CI- E	
400-154790-25	AY13281 MW-30	Total/NA	Water	SM 4500 CI- E	
400-154790-26	AY13282 MW-28	Total/NA	Water	SM 4500 CI- E	
400-154790-27	AY13283 MW-27	Total/NA	Water	SM 4500 CI- E	
400-154790-28	AY13284 MW-26	Total/NA	Water	SM 4500 CI- E	
400-154790-29	AY13285 MW-32	Total/NA	Water	SM 4500 CI- E	
400-154790-30	AY13286 MW-33	Total/NA	Water	SM 4500 CI- E	
400-154790-31	AY13287 MW-31	Total/NA	Water	SM 4500 CI- E	
MB 400-401422/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-401422/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-401422/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
SDG: Greene County Ash Pond 1153

General Chemistry (Continued)

Analysis Batch: 401422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-12 MS	AY13268 MW-5	Total/NA	Water	SM 4500 CI- E	
400-154790-12 MSD	AY13268 MW-5	Total/NA	Water	SM 4500 CI- E	
400-154790-25 MS	AY13281 MW-30	Total/NA	Water	SM 4500 CI- E	
400-154790-25 MSD	AY13281 MW-30	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 401459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-1	AY13220 MW-18	Total/NA	Water	SM 4500 SO4 E	
400-154790-2	AY13221 MW-17	Total/NA	Water	SM 4500 SO4 E	
400-154790-7	AY13263 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-154790-8	AY13264 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-154790-9	AY13265 MW-2 DUP	Total/NA	Water	SM 4500 SO4 E	
400-154790-10	AY13266 MW-3	Total/NA	Water	SM 4500 SO4 E	
400-154790-11	AY13267 FB-1	Total/NA	Water	SM 4500 SO4 E	
MB 400-401459/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-401459/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-401459/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-154790-7 MS	AY13263 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-154790-7 MSD	AY13263 MW-1	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 401656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-3	AY13222 MW-17 DUP	Total/NA	Water	SM 4500 SO4 E	
400-154790-4	AY13223 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-154790-5	AY13224 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-154790-6	AY13225 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-154790-12	AY13268 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-154790-13	AY13269 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-154790-14	AY13270 MW-7	Total/NA	Water	SM 4500 SO4 E	
400-154790-15	AY13271 MW-8	Total/NA	Water	SM 4500 SO4 E	
400-154790-16	AY13272 MW-9	Total/NA	Water	SM 4500 SO4 E	
400-154790-17	AY13273 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-154790-18	AY13274 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-154790-22	AY13278 MW-24	Total/NA	Water	SM 4500 SO4 E	
400-154790-23	AY13279 MW-23	Total/NA	Water	SM 4500 SO4 E	
400-154790-24	AY13280 MW-29	Total/NA	Water	SM 4500 SO4 E	
400-154790-25	AY13281 MW-30	Total/NA	Water	SM 4500 SO4 E	
400-154790-26	AY13282 MW-28	Total/NA	Water	SM 4500 SO4 E	
400-154790-27	AY13283 MW-27	Total/NA	Water	SM 4500 SO4 E	
400-154790-28	AY13284 MW-26	Total/NA	Water	SM 4500 SO4 E	
400-154790-29	AY13285 MW-32	Total/NA	Water	SM 4500 SO4 E	
400-154790-30	AY13286 MW-33	Total/NA	Water	SM 4500 SO4 E	
MB 400-401656/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-401656/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-401656/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-154790-22 MS	AY13278 MW-24	Total/NA	Water	SM 4500 SO4 E	
400-154790-22 MSD	AY13278 MW-24	Total/NA	Water	SM 4500 SO4 E	
400-154790-27 MS	AY13283 MW-27	Total/NA	Water	SM 4500 SO4 E	
400-154790-27 MSD	AY13283 MW-27	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

General Chemistry (Continued)

Analysis Batch: 401761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-19	AY13275 MW-21	Total/NA	Water	SM 4500 SO4 E	
400-154790-20	AY13276 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-154790-21	AY13277 MW-13	Total/NA	Water	SM 4500 SO4 E	
400-154790-31	AY13287 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-154790-32	AY13288 MW-25	Total/NA	Water	SM 4500 SO4 E	
400-154790-33	AY13289 MW-14	Total/NA	Water	SM 4500 SO4 E	
400-154790-34	AY13290 MW-25 DUP	Total/NA	Water	SM 4500 SO4 E	
400-154790-35	AY13291 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-154790-36	AY13292 EB-1	Total/NA	Water	SM 4500 SO4 E	
MB 400-401761/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-401761/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-401761/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-154790-31 MS	AY13287 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-154790-31 MSD	AY13287 MW-31	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 401831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-32	AY13288 MW-25	Total/NA	Water	SM 4500 Cl- E	
400-154790-33	AY13289 MW-14	Total/NA	Water	SM 4500 Cl- E	
400-154790-34	AY13290 MW-25 DUP	Total/NA	Water	SM 4500 Cl- E	
400-154790-35	AY13291 FB-2	Total/NA	Water	SM 4500 Cl- E	
400-154790-36	AY13292 EB-1	Total/NA	Water	SM 4500 Cl- E	
MB 400-401831/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-401831/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-401831/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-154790-33 MS	AY13289 MW-14	Total/NA	Water	SM 4500 Cl- E	
400-154790-33 MSD	AY13289 MW-14	Total/NA	Water	SM 4500 Cl- E	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-401408/6
Matrix: Water
Analysis Batch: 401408

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/18/18 06:27	1

Lab Sample ID: LCS 400-401408/7
Matrix: Water
Analysis Batch: 401408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.5		mg/L		102	90 - 110

Lab Sample ID: MRL 400-401408/3
Matrix: Water
Analysis Batch: 401408

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.93	J	mg/L		96	50 - 150

Lab Sample ID: 400-154790-1 MS
Matrix: Water
Analysis Batch: 401408

Client Sample ID: AY13220 MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25		10.0	34.0		mg/L		88	73 - 120

Lab Sample ID: 400-154790-1 MSD
Matrix: Water
Analysis Batch: 401408

Client Sample ID: AY13220 MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	25		10.0	34.1		mg/L		90	73 - 120	0	8

Lab Sample ID: MB 400-401422/6
Matrix: Water
Analysis Batch: 401422

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/18/18 09:42	1

Lab Sample ID: LCS 400-401422/7
Matrix: Water
Analysis Batch: 401422

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.2		mg/L		107	90 - 110

Lab Sample ID: MRL 400-401422/3
Matrix: Water
Analysis Batch: 401422

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.77	J	mg/L		89	50 - 150

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Lab Sample ID: 400-154790-12 MS
Matrix: Water
Analysis Batch: 401422

Client Sample ID: AY13268 MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15		10.0	25.5		mg/L		101	73 - 120

Lab Sample ID: 400-154790-12 MSD
Matrix: Water
Analysis Batch: 401422

Client Sample ID: AY13268 MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15		10.0	25.4		mg/L		101	73 - 120	0	8

Lab Sample ID: 400-154790-25 MS
Matrix: Water
Analysis Batch: 401422

Client Sample ID: AY13281 MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.3		10.0	12.7		mg/L		103	73 - 120

Lab Sample ID: 400-154790-25 MSD
Matrix: Water
Analysis Batch: 401422

Client Sample ID: AY13281 MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.3		10.0	12.4		mg/L		100	73 - 120	2	8

Lab Sample ID: MB 400-401831/6
Matrix: Water
Analysis Batch: 401831

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/20/18 12:09	1

Lab Sample ID: LCS 400-401831/7
Matrix: Water
Analysis Batch: 401831

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.4		mg/L		101	90 - 110

Lab Sample ID: MRL 400-401831/3
Matrix: Water
Analysis Batch: 401831

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.28	J	mg/L		64	50 - 150

Lab Sample ID: 400-154790-33 MS
Matrix: Water
Analysis Batch: 401831

Client Sample ID: AY13289 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14		10.0	24.5		mg/L		102	73 - 120

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-154790-33 MSD
Matrix: Water
Analysis Batch: 401831

Client Sample ID: AY13289 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14		10.0	24.3		mg/L		100	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-400855/3
Matrix: Water
Analysis Batch: 400855

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/12/18 13:32	1

Lab Sample ID: LCS 400-400855/4
Matrix: Water
Analysis Batch: 400855

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.87		mg/L		97	90 - 110

Lab Sample ID: 400-154877-E-31 MS
Matrix: Water
Analysis Batch: 400855

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.88	F1	1.00	1.51	F1	mg/L		63	75 - 125

Lab Sample ID: 400-154877-E-31 MSD
Matrix: Water
Analysis Batch: 400855

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.88	F1	1.00	1.51	F1	mg/L		63	75 - 125	0	4

Lab Sample ID: 240-96587-F-3 DU
Matrix: Water
Analysis Batch: 400855

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.95		0.950		mg/L		0	4

Lab Sample ID: MB 400-400872/3
Matrix: Water
Analysis Batch: 400872

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/12/18 14:59	1

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-400872/4
Matrix: Water
Analysis Batch: 400872

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.72		mg/L		93	90 - 110

Lab Sample ID: 400-154790-3 MS
Matrix: Water
Analysis Batch: 400872

Client Sample ID: AY13222 MW-17 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.41		1.00	1.37		mg/L		96	75 - 125

Lab Sample ID: 400-154790-3 MSD
Matrix: Water
Analysis Batch: 400872

Client Sample ID: AY13222 MW-17 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.41		1.00	1.37		mg/L		96	75 - 125	0	4

Lab Sample ID: 400-154790-16 DU
Matrix: Water
Analysis Batch: 400872

Client Sample ID: AY13272 MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.19		0.190		mg/L		0	4

Lab Sample ID: MB 400-400986/3
Matrix: Water
Analysis Batch: 400986

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/13/18 13:46	1

Lab Sample ID: LCS 400-400986/4
Matrix: Water
Analysis Batch: 400986

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.79		mg/L		95	90 - 110

Lab Sample ID: 400-154790-25 MS
Matrix: Water
Analysis Batch: 400986

Client Sample ID: AY13281 MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	1.00		mg/L		100	75 - 125

Lab Sample ID: 400-154790-25 MSD
Matrix: Water
Analysis Batch: 400986

Client Sample ID: AY13281 MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	1.00		mg/L		100	75 - 125	0	4

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Lab Sample ID: 400-154790-33 DU
Matrix: Water
Analysis Batch: 400986

Client Sample ID: AY13289 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.15		0.150		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-401459/6
Matrix: Water
Analysis Batch: 401459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			06/18/18 10:34	1

Lab Sample ID: LCS 400-401459/7
Matrix: Water
Analysis Batch: 401459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.5		mg/L		97	90 - 110

Lab Sample ID: MRL 400-401459/3
Matrix: Water
Analysis Batch: 401459

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.05		mg/L		101	50 - 150

Lab Sample ID: 400-154790-7 MS
Matrix: Water
Analysis Batch: 401459

Client Sample ID: AY13263 MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	850	F1	300	817	F1	mg/L		-9	77 - 128

Lab Sample ID: 400-154790-7 MSD
Matrix: Water
Analysis Batch: 401459

Client Sample ID: AY13263 MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	850	F1	300	818	F1	mg/L		-9	77 - 128	0	5

Lab Sample ID: MB 400-401656/6
Matrix: Water
Analysis Batch: 401656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			06/19/18 10:32	1

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-401656/7
Matrix: Water
Analysis Batch: 401656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.6		mg/L		104	90 - 110

Lab Sample ID: MRL 400-401656/3
Matrix: Water
Analysis Batch: 401656

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.62		mg/L		112	50 - 150

Lab Sample ID: 400-154790-22 MS
Matrix: Water
Analysis Batch: 401656

Client Sample ID: AY13278 MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	97	F1 F2	50.0	91.9	F1	mg/L		-10	77 - 128

Lab Sample ID: 400-154790-22 MSD
Matrix: Water
Analysis Batch: 401656

Client Sample ID: AY13278 MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	97	F1 F2	50.0	101	F1 F2	mg/L		9	77 - 128	10	5

Lab Sample ID: 400-154790-27 MS
Matrix: Water
Analysis Batch: 401656

Client Sample ID: AY13283 MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.1	J	10.0	12.0		mg/L		99	77 - 128

Lab Sample ID: 400-154790-27 MSD
Matrix: Water
Analysis Batch: 401656

Client Sample ID: AY13283 MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2.1	J	10.0	12.1		mg/L		100	77 - 128	1	5

Lab Sample ID: MB 400-401761/6
Matrix: Water
Analysis Batch: 401761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			06/20/18 08:21	1

Lab Sample ID: LCS 400-401761/7
Matrix: Water
Analysis Batch: 401761

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.0		mg/L		100	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Lab Sample ID: MRL 400-401761/3
Matrix: Water
Analysis Batch: 401761

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.32		mg/L		106	50 - 150

Lab Sample ID: 400-154790-31 MS
Matrix: Water
Analysis Batch: 401761

Client Sample ID: AY13287 MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	3.7	J	10.0	14.2		mg/L		104	77 - 128

Lab Sample ID: 400-154790-31 MSD
Matrix: Water
Analysis Batch: 401761

Client Sample ID: AY13287 MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	3.7	J	10.0	14.1		mg/L		103	77 - 128	1	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax: (850) 478-2671

Chain of Custody Record



Client Information Client Contact: Sarah Copeland Phone: _____ Email: cheyenne.whitmire@testamericainc.com		Lab P.M.: Whitmire, Cheyenne R Carrier Tracking Note(s): _____										
Due Date Requested: _____ TAT Requested (days): Routine		Analysis Requested: _____ 9315_R4226_9320_R4228_R4228R4228_GFP_C										
Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6121 (Tel) Email: sgccopelia@southernmco.com Project Name: CCR S/SOW#: _____ Site: Greene County Ash Pond 1153		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> No SM 4500 F_C SM 4500 CL_E SM 4500 SO4_E										
Sample Identification		Special Instructions/Note:										
Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Preservation Code	Field Filtered Sample	Perform MS/MSD	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	Total Number of Containers	Special Instructions/Note
AY13220	6/5/18	1019	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-18
AY13221	6/5/18	1114	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-17
AY13222	6/5/18	1114	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-17 Dup (Sample Duplicate)
AY13223	6/5/18	1257	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-16
AY13224	6/5/18	1402	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-15
AY13225	6/5/18	1415	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	FB-3 (Field Blank)
AY13263	6/4/18	1400	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-1
AY13264	6/4/18	1540	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-2
AY13265	6/4/18	1540	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-2 Dup (Sample Duplicate)
AY13266	6/4/18	1708	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-3
AY13267	6/4/18	1730	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	FB-1
AY13268	6/5/18	1030	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-5
AY13269	6/5/18	1132	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-6
AY13270	6/5/18	1303	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-7
AY13271	6/5/18	1425	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-8
AY13272	6/5/18	1534	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-9
AY13273	6/5/18	1637	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-10
AY13274	6/5/18	1753	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	MW-11



Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Sarah Copeland Date/Time: 6/7/2018, 1100
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____
 Date/Time: 6-8-18 0917 Company: TA Pen
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: 0.3°C 21.0°C 20.1°C TB9



Chain of Custody Record

Client Information Alabama Power General Test Laboratory 744 County Rd 87 GSC #8 Callera State: AL Zip: 35040 Phone: 205-664-6121(Tel) Email: sgcopela@southernco.com Project Name: CCR Site: Greene County Ash Pond 1153		Sampler: Ben Rothschild/Anthony Goggins Lab P.M.: Whitmire, Chyenne R Phone: chyenne.whitmire@testamericainc.com		Carrier Tracking No(s): 400-56525-24537.1 Page: Page 2 of 2 Job #: 154790			
Due Date Requested: TAT Requested (days): Routine		Analysis Requested 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc SM 4500 SO4_F SM 4500 Cl_F SM 4500 F_F Perform MS/MSD (Yes or No)					
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Overstool, BPA/Fraser, Ase)		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Total Number of Containers					
AY13275	6/6/18	0951	G	Water	4	MW-21	
AY13276	6/6/18	1100	G	Water	2	MW-12	
AY13277	6/6/18	1208	G	Water	2	MW-13	
AY13278	6/5/18	1025	G	Water	2	MW-24	
AY13279	6/5/18	1113	G	Water	2	MW-23	
AY13280	6/5/18	1229	G	Water	4	MW-29	
AY13281	6/5/18	1318	G	Water	2	MW-30	
AY13282	6/5/18	1405	G	Water	2	MW-28	
AY13283	6/5/18	1444	G	Water	2	MW-27	
AY13284	6/5/18	1523	G	Water	2	MW-26	
AY13285	6/5/18	1623	G	Water	2	MW-32	
AY13286	6/5/18	1708	G	Water	2	MW-33	
AY13287	6/5/18	1804	G	Water	2	MW-31	
AY13288	6/6/18	0927	G	Water	2	MW-25	
AY13289	6/6/18	1125	G	Water	2	MW-14	
AY13290	6/6/18	0927	G	Water	2	MW-25 Dup (Sample Duplicate)	
AY13291	6/6/18	0918	G	Water	2	FB-2 (Field Blank)	
AY13292	6/6/18	1205	G	Water	2	EB-1 (Equipment Blank)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Empty Kit Relinquished by:					Method of Shipment:		
Relinquished by: Sarah Copeland					Date/Time: 6/7/2018; 1100		
Relinquished by:					Date/Time:		
Relinquished by:					Date/Time:		
Custody Seals Intact: Δ Yes Δ No					0.36, 21.0°C, 20.1°C IRB		



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-154790-1
SDG Number: Greene County Ash Pond 1153

Login Number: 154790

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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	0.3°C IR8
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 <math><6\text{mm}</math> (1/4").	N/A	
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

TestAmerica Job ID: 400-154790-1
 SDG: Greene County Ash Pond 1153

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	06-30-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-18
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-18-14	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-154790-2

TestAmerica SDG: Greene County Ash Pond 1153

Client Project/Site: CCR Plant Greene

For:

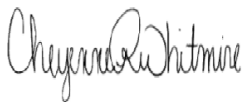
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

7/11/2018 6:10:44 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Job ID: 400-154790-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-154790-2

RAD

Method(s) 9320: Ra-228 Prep Batch 160-370284. The following sample exhibited a negative result greater in magnitude than the 3 sigma TPU. This occurrence was evaluated and determined to be random in nature. Sporadic occurrences such as this are statistically expected. No further action is required. AY13224 MW-15 (400-154790-5)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-370446: The following sample was accidentally double spiked with Ba carrier: AY13280 MW-29 (400-154790-24). The corresponding numbers in TALs have been updated to reflect this.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-370437: The following sample was accidentally double spiked with Ba carrier: AY13280 MW-29 (400-154790-24). The corresponding numbers in TALs have been updated to reflect this.



Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

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 = 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

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-154790-1	AY13220 MW-18	Water	06/05/18 10:19	06/08/18 09:17
400-154790-2	AY13221 MW-17	Water	06/05/18 11:14	06/08/18 09:17
400-154790-3	AY13222 MW-17 DUP	Water	06/05/18 11:14	06/08/18 09:17
400-154790-4	AY13223 MW-16	Water	06/05/18 12:57	06/08/18 09:17
400-154790-5	AY13224 MW-15	Water	06/05/18 14:02	06/08/18 09:17
400-154790-6	AY13225 FB-3	Water	06/05/18 14:15	06/08/18 09:17
400-154790-7	AY13263 MW-1	Water	06/04/18 14:00	06/08/18 09:17
400-154790-8	AY13264 MW-2	Water	06/04/18 15:40	06/08/18 09:17
400-154790-9	AY13265 MW-2 DUP	Water	06/04/18 15:40	06/08/18 09:17
400-154790-10	AY13266 MW-3	Water	06/04/18 17:08	06/08/18 09:17
400-154790-11	AY13267 FB-1	Water	06/04/18 17:30	06/08/18 09:17
400-154790-12	AY13268 MW-5	Water	06/05/18 10:30	06/08/18 09:17
400-154790-13	AY13269 MW-6	Water	06/05/18 11:32	06/08/18 09:17
400-154790-14	AY13270 MW-7	Water	06/05/18 13:03	06/08/18 09:17
400-154790-15	AY13271 MW-8	Water	06/05/18 14:25	06/08/18 09:17
400-154790-16	AY13272 MW-9	Water	06/05/18 15:34	06/08/18 09:17
400-154790-17	AY13273 MW-10	Water	06/05/18 16:37	06/08/18 09:17
400-154790-18	AY13274 MW-11	Water	06/05/18 17:53	06/08/18 09:17
400-154790-19	AY13275 MW-21	Water	06/06/18 09:51	06/08/18 09:17
400-154790-20	AY13276 MW-12	Water	06/06/18 11:00	06/08/18 09:17
400-154790-21	AY13277 MW-13	Water	06/06/18 12:08	06/08/18 09:17
400-154790-22	AY13278 MW-24	Water	06/05/18 10:25	06/08/18 09:17
400-154790-23	AY13279 MW-23	Water	06/05/18 11:13	06/08/18 09:17
400-154790-24	AY13280 MW-29	Water	06/05/18 12:29	06/08/18 09:17
400-154790-25	AY13281 MW-30	Water	06/05/18 13:18	06/08/18 09:17
400-154790-26	AY13282 MW-28	Water	06/05/18 14:05	06/08/18 09:17
400-154790-27	AY13283 MW-27	Water	06/05/18 14:44	06/08/18 09:17
400-154790-28	AY13284 MW-26	Water	06/05/18 15:23	06/08/18 09:17
400-154790-29	AY13285 MW-32	Water	06/05/18 16:23	06/08/18 09:17
400-154790-30	AY13286 MW-33	Water	06/05/18 17:08	06/08/18 09:17
400-154790-31	AY13287 MW-31	Water	06/05/18 18:04	06/08/18 09:17
400-154790-32	AY13288 MW-25	Water	06/06/18 09:27	06/08/18 09:17
400-154790-33	AY13289 MW-14	Water	06/06/18 11:25	06/08/18 09:17
400-154790-34	AY13290 MW-25 DUP	Water	06/06/18 09:27	06/08/18 09:17
400-154790-35	AY13291 FB-2	Water	06/06/18 09:18	06/08/18 09:17
400-154790-36	AY13292 EB-1	Water	06/06/18 12:05	06/08/18 09:17

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13220 MW-18

Lab Sample ID: 400-154790-1

Date Collected: 06/05/18 10:19

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.648		0.250	0.257	1.00	0.228	pCi/L	06/13/18 13:21	07/09/18 20:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					06/13/18 13:21	07/09/18 20:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.351	U	0.252	0.254	1.00	0.395	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	93.1		40 - 110					06/13/18 13:43	07/09/18 14:39	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	0.999		0.355	0.361	5.00	0.395	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13221 MW-17

Lab Sample ID: 400-154790-2

Date Collected: 06/05/18 11:14

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.568		0.256	0.261	1.00	0.281	pCi/L	06/13/18 13:21	07/09/18 19:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/13/18 13:21	07/09/18 19:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.501		0.258	0.262	1.00	0.382	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	91.2		40 - 110					06/13/18 13:43	07/09/18 14:39	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		0.363	0.370	5.00	0.382	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13222 MW-17 DUP

Lab Sample ID: 400-154790-3

Date Collected: 06/05/18 11:14

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.665		0.282	0.288	1.00	0.283	pCi/L	06/13/18 13:21	07/09/18 19:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					06/13/18 13:21	07/09/18 19:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.546		0.236	0.241	1.00	0.331	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	93.8		40 - 110					06/13/18 13:43	07/09/18 14:39	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	1.21		0.368	0.376	5.00	0.331	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13223 MW-16

Lab Sample ID: 400-154790-4

Date Collected: 06/05/18 12:57

Matrix: Water

Date Received: 06/08/18 09:17

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	U	0.154	0.155	1.00	0.218	pCi/L	06/13/18 13:21	07/09/18 19:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					06/13/18 13:21	07/09/18 19:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.270	0.271	1.00	0.456	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	90.1		40 - 110					06/13/18 13:43	07/09/18 14:39	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	0.337	U	0.311	0.312	5.00	0.456	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13224 MW-15

Lab Sample ID: 400-154790-5

Date Collected: 06/05/18 14:02

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0525	U	0.118	0.118	1.00	0.222	pCi/L	06/13/18 13:21	07/09/18 19:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/13/18 13:21	07/09/18 19:13	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	0.206	0.209	1.00	0.433	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	91.2		40 - 110					06/13/18 13:43	07/09/18 14:39	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	-0.365	U	0.237	0.240	5.00	0.433	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13225 FB-3

Lab Sample ID: 400-154790-6

Date Collected: 06/05/18 14:15

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.142	U	0.136	0.137	1.00	0.196	pCi/L	06/13/18 13:21	07/09/18 19:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					06/13/18 13:21	07/09/18 19:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.208	0.209	1.00	0.347	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	91.6		40 - 110					06/13/18 13:43	07/09/18 14:39	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	0.299	U	0.249	0.250	5.00	0.347	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13263 MW-1

Lab Sample ID: 400-154790-7

Date Collected: 06/04/18 14:00

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.538		0.236	0.241	1.00	0.232	pCi/L	06/13/18 13:21	07/09/18 19:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/13/18 13:21	07/09/18 19:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.467		0.235	0.239	1.00	0.344	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	96.1		40 - 110					06/13/18 13:43	07/09/18 14:39	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	1.01		0.333	0.339	5.00	0.344	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13264 MW-2

Lab Sample ID: 400-154790-8

Date Collected: 06/04/18 15:40

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.544		0.235	0.240	1.00	0.224	pCi/L	06/13/18 13:21	07/09/18 19:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/13/18 13:21	07/09/18 19:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0962	U	0.186	0.186	1.00	0.318	pCi/L	06/13/18 13:43	07/09/18 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/13/18 13:43	07/09/18 14:39	1
Y Carrier	93.5		40 - 110					06/13/18 13:43	07/09/18 14:39	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	0.640		0.300	0.304	5.00	0.318	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13265 MW-2 DUP

Lab Sample ID: 400-154790-9

Date Collected: 06/04/18 15:40

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300		0.196	0.198	1.00	0.255	pCi/L	06/13/18 13:21	07/09/18 19:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/13/18 13:21	07/09/18 19:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.206	U	0.220	0.221	1.00	0.360	pCi/L	06/13/18 13:43	07/09/18 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/13/18 13:43	07/09/18 14:22	1
Y Carrier	93.8		40 - 110					06/13/18 13:43	07/09/18 14:22	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	0.507		0.295	0.297	5.00	0.360	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13266 MW-3

Lab Sample ID: 400-154790-10

Date Collected: 06/04/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.591		0.244	0.250	1.00	0.241	pCi/L	06/13/18 13:21	07/09/18 19:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/13/18 13:21	07/09/18 19:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.363	U	0.242	0.245	1.00	0.374	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	88.2		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.954		0.344	0.350	5.00	0.374	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13267 FB-1

Lab Sample ID: 400-154790-11

Date Collected: 06/04/18 17:30

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0913	U	0.142	0.142	1.00	0.246	pCi/L	06/13/18 13:21	07/09/18 19:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/13/18 13:21	07/09/18 19:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U	0.200	0.200	1.00	0.342	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	91.2		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.192	U	0.245	0.245	5.00	0.342	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13268 MW-5

Lab Sample ID: 400-154790-12

Date Collected: 06/05/18 10:30

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.10		0.321	0.336	1.00	0.253	pCi/L	06/13/18 13:21	07/09/18 19:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					06/13/18 13:21	07/09/18 19:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.200	0.202	1.00	0.308	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	92.7		40 - 110					06/13/18 13:43	07/09/18 14:40	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	1.39		0.378	0.392	5.00	0.308	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13269 MW-6

Lab Sample ID: 400-154790-13

Date Collected: 06/05/18 11:32

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.181	U	0.156	0.157	1.00	0.219	pCi/L	06/13/18 13:21	07/09/18 19:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/13/18 13:21	07/09/18 19:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00433	U	0.215	0.215	1.00	0.386	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	91.2		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.176	U	0.266	0.266	5.00	0.386	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13270 MW-7

Lab Sample ID: 400-154790-14

Date Collected: 06/05/18 13:03

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.221	U	0.186	0.187	1.00	0.272	pCi/L	06/13/18 13:21	07/09/18 20:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/13/18 13:21	07/09/18 20:20	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	0.233	0.236	1.00	0.358	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	90.8		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.577		0.298	0.301	5.00	0.358	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13271 MW-8

Lab Sample ID: 400-154790-15

Date Collected: 06/05/18 14:25

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.333		0.201	0.203	1.00	0.262	pCi/L	06/13/18 13:21	07/09/18 20:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/13/18 13:21	07/09/18 20:20	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	0.199	0.200	1.00	0.315	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	92.0		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.564		0.283	0.285	5.00	0.315	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13272 MW-9

Lab Sample ID: 400-154790-16

Date Collected: 06/05/18 15:34

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.540		0.229	0.234	1.00	0.225	pCi/L	06/13/18 13:21	07/09/18 21:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/13/18 13:21	07/09/18 21:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.182	U	0.206	0.207	1.00	0.339	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	91.6		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.722		0.308	0.312	5.00	0.339	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13273 MW-10

Lab Sample ID: 400-154790-17

Date Collected: 06/05/18 16:37

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.526		0.219	0.224	1.00	0.195	pCi/L	06/13/18 13:21	07/09/18 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/13/18 13:21	07/09/18 20:21	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	0.224	0.225	1.00	0.373	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	90.8		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.698		0.313	0.317	5.00	0.373	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13274 MW-11

Lab Sample ID: 400-154790-18

Date Collected: 06/05/18 17:53

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.156	U	0.185	0.185	1.00	0.301	pCi/L	06/13/18 13:21	07/09/18 20:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					06/13/18 13:21	07/09/18 20:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0884	U	0.246	0.247	1.00	0.425	pCi/L	06/13/18 13:43	07/09/18 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					06/13/18 13:43	07/09/18 14:40	1
Y Carrier	92.3		40 - 110					06/13/18 13:43	07/09/18 14:40	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	0.244	U	0.308	0.309	5.00	0.425	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13275 MW-21

Lab Sample ID: 400-154790-19

Date Collected: 06/06/18 09:51

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149	U	0.178	0.178	1.00	0.290	pCi/L	06/13/18 13:21	07/09/18 20:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/13/18 13:21	07/09/18 20:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.205	U	0.162	0.163	1.00	0.335	pCi/L	06/13/18 13:43	07/09/18 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/13/18 13:43	07/09/18 14:41	1
Y Carrier	94.2		40 - 110					06/13/18 13:43	07/09/18 14:41	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	-0.0560	U	0.241	0.241	5.00	0.335	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13276 MW-12

Lab Sample ID: 400-154790-20

Date Collected: 06/06/18 11:00

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0655	U	0.175	0.175	1.00	0.328	pCi/L	06/13/18 13:21	07/09/18 20:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/13/18 13:21	07/09/18 20:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0481	U	0.203	0.204	1.00	0.359	pCi/L	06/13/18 13:43	07/09/18 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/13/18 13:43	07/09/18 14:41	1
Y Carrier	93.1		40 - 110					06/13/18 13:43	07/09/18 14:41	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	0.114	U	0.268	0.269	5.00	0.359	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13277 MW-13

Lab Sample ID: 400-154790-21

Date Collected: 06/06/18 12:08

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.116	0.116	1.00	0.181	pCi/L	06/14/18 10:45	07/06/18 15:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					06/14/18 10:45	07/06/18 15:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.147	U	0.216	0.216	1.00	0.362	pCi/L	06/14/18 11:23	07/05/18 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					06/14/18 11:23	07/05/18 13:50	1
Y Carrier	91.6		40 - 110					06/14/18 11:23	07/05/18 13:50	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	0.258	U	0.245	0.245	5.00	0.362	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13278 MW-24

Lab Sample ID: 400-154790-22

Date Collected: 06/05/18 10:25

Matrix: Water

Date Received: 06/08/18 09:17

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		0.210	0.217	1.00	0.178	pCi/L	06/14/18 10:45	07/06/18 15:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/14/18 10:45	07/06/18 15:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.521		0.240	0.245	1.00	0.345	pCi/L	06/14/18 11:23	07/05/18 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/14/18 11:23	07/05/18 13:50	1
Y Carrier	92.3		40 - 110					06/14/18 11:23	07/05/18 13:50	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	1.13		0.319	0.327	5.00	0.345	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13279 MW-23

Lab Sample ID: 400-154790-23

Date Collected: 06/05/18 11:13

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0810	U	0.111	0.112	1.00	0.188	pCi/L	06/14/18 10:45	07/06/18 15:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					06/14/18 10:45	07/06/18 15:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.232	U	0.215	0.216	1.00	0.346	pCi/L	06/14/18 11:23	07/05/18 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					06/14/18 11:23	07/05/18 13:50	1
Y Carrier	91.2		40 - 110					06/14/18 11:23	07/05/18 13:50	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	0.313	U	0.242	0.243	5.00	0.346	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13280 MW-29

Lab Sample ID: 400-154790-24

Date Collected: 06/05/18 12:29

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0641	U	0.145	0.145	1.00	0.267	pCi/L	06/14/18 10:45	07/06/18 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					06/14/18 10:45	07/06/18 08:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0804	U	0.176	0.176	1.00	0.302	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	91.2		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.145	U	0.228	0.228	5.00	0.302	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13281 MW-30

Lab Sample ID: 400-154790-25

Date Collected: 06/05/18 13:18

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0698	U	0.116	0.117	1.00	0.205	pCi/L	06/14/18 10:45	07/06/18 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					06/14/18 10:45	07/06/18 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.273	U	0.286	0.287	1.00	0.467	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	92.3		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.342	U	0.309	0.310	5.00	0.467	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13282 MW-28

Lab Sample ID: 400-154790-26

Date Collected: 06/05/18 14:05

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.308		0.170	0.173	1.00	0.201	pCi/L	06/14/18 10:45	07/06/18 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					06/14/18 10:45	07/06/18 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.484		0.247	0.251	1.00	0.362	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	91.6		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.792		0.300	0.305	5.00	0.362	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13283 MW-27

Lab Sample ID: 400-154790-27

Date Collected: 06/05/18 14:44

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.199		0.145	0.147	1.00	0.195	pCi/L	06/14/18 10:45	07/06/18 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/14/18 10:45	07/06/18 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.192	U	0.222	0.223	1.00	0.366	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	92.3		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.391		0.265	0.267	5.00	0.366	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13284 MW-26

Lab Sample ID: 400-154790-28

Date Collected: 06/05/18 15:23

Matrix: Water

Date Received: 06/08/18 09:17

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	0.128	0.129	1.00	0.192	pCi/L	06/14/18 10:45	07/06/18 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					06/14/18 10:45	07/06/18 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.133	U	0.220	0.220	1.00	0.370	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	93.5		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.269	U	0.255	0.255	5.00	0.370	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13285 MW-32

Lab Sample ID: 400-154790-29

Date Collected: 06/05/18 16:23

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0265	U	0.0862	0.0862	1.00	0.207	pCi/L	06/14/18 10:45	07/06/18 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					06/14/18 10:45	07/06/18 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.102	U	0.231	0.232	1.00	0.426	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	88.2		40 - 110					06/14/18 11:23	07/05/18 13:48	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	-0.128	U	0.247	0.247	5.00	0.426	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13286 MW-33

Lab Sample ID: 400-154790-30

Date Collected: 06/05/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.903		0.263	0.276	1.00	0.186	pCi/L	06/14/18 10:45	07/06/18 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					06/14/18 10:45	07/06/18 08:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.751		0.292	0.300	1.00	0.415	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	93.1		40 - 110					06/14/18 11:23	07/05/18 13:48	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	1.65		0.393	0.408	5.00	0.415	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13287 MW-31

Lab Sample ID: 400-154790-31

Date Collected: 06/05/18 18:04

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175	U	0.134	0.134	1.00	0.184	pCi/L	06/14/18 10:45	07/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/14/18 10:45	07/06/18 12:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0433	U	0.204	0.204	1.00	0.359	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	90.5		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.244	0.244	5.00	0.359	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13288 MW-25

Lab Sample ID: 400-154790-32

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0594	U	0.102	0.102	1.00	0.181	pCi/L	06/14/18 10:45	07/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					06/14/18 10:45	07/06/18 12:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0434	U	0.251	0.251	1.00	0.448	pCi/L	06/14/18 11:23	07/05/18 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					06/14/18 11:23	07/05/18 13:48	1
Y Carrier	93.1		40 - 110					06/14/18 11:23	07/05/18 13:48	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	0.0160	U	0.271	0.271	5.00	0.448	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13289 MW-14

Lab Sample ID: 400-154790-33

Date Collected: 06/06/18 11:25

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.452		0.190	0.195	1.00	0.189	pCi/L	06/14/18 10:45	07/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/14/18 10:45	07/06/18 12:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.491		0.266	0.269	1.00	0.401	pCi/L	06/14/18 11:23	07/05/18 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/14/18 11:23	07/05/18 13:49	1
Y Carrier	91.2		40 - 110					06/14/18 11:23	07/05/18 13:49	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	0.943		0.327	0.332	5.00	0.401	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13290 MW-25 DUP

Lab Sample ID: 400-154790-34

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.186	U	0.137	0.138	1.00	0.188	pCi/L	06/14/18 10:45	07/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/14/18 10:45	07/06/18 12:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.140	U	0.198	0.198	1.00	0.331	pCi/L	06/14/18 11:23	07/05/18 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/14/18 11:23	07/05/18 13:49	1
Y Carrier	90.8		40 - 110					06/14/18 11:23	07/05/18 13:49	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	0.326	U	0.241	0.241	5.00	0.331	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13291 FB-2

Lab Sample ID: 400-154790-35

Date Collected: 06/06/18 09:18

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133	U	0.115	0.115	1.00	0.161	pCi/L	06/14/18 10:45	07/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/14/18 10:45	07/06/18 12:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0656	U	0.167	0.167	1.00	0.315	pCi/L	06/14/18 11:23	07/05/18 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/14/18 11:23	07/05/18 13:49	1
Y Carrier	95.3		40 - 110					06/14/18 11:23	07/05/18 13:49	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	0.0672	U	0.203	0.203	5.00	0.315	pCi/L		07/11/18 17:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13292 EB-1

Lab Sample ID: 400-154790-36

Date Collected: 06/06/18 12:05

Matrix: Water

Date Received: 06/08/18 09:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0135	U	0.0698	0.0698	1.00	0.150	pCi/L	06/14/18 10:45	07/06/18 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/14/18 10:45	07/06/18 12:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.308		0.197	0.199	1.00	0.301	pCi/L	06/14/18 11:23	07/05/18 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/14/18 11:23	07/05/18 13:50	1
Y Carrier	94.2		40 - 110					06/14/18 11:23	07/05/18 13:50	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	0.321		0.209	0.211	5.00	0.301	pCi/L		07/11/18 17:35	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

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)
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

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13220 MW-18

Lab Sample ID: 400-154790-1

Date Collected: 06/05/18 10:19

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 20:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13221 MW-17

Lab Sample ID: 400-154790-2

Date Collected: 06/05/18 11:14

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374439	07/09/18 19:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13222 MW-17 DUP

Lab Sample ID: 400-154790-3

Date Collected: 06/05/18 11:14

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374449	07/09/18 19:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13223 MW-16

Lab Sample ID: 400-154790-4

Date Collected: 06/05/18 12:57

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13224 MW-15

Lab Sample ID: 400-154790-5

Date Collected: 06/05/18 14:02

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13225 FB-3

Lab Sample ID: 400-154790-6

Date Collected: 06/05/18 14:15

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13263 MW-1

Lab Sample ID: 400-154790-7

Date Collected: 06/04/18 14:00

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13264 MW-2

Lab Sample ID: 400-154790-8

Date Collected: 06/04/18 15:40

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13265 MW-2 DUP

Lab Sample ID: 400-154790-9

Date Collected: 06/04/18 15:40

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374449	07/09/18 14:22	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13266 MW-3

Lab Sample ID: 400-154790-10

Date Collected: 06/04/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13267 FB-1

Lab Sample ID: 400-154790-11

Date Collected: 06/04/18 17:30

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13268 MW-5

Lab Sample ID: 400-154790-12

Date Collected: 06/05/18 10:30

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13269 MW-6

Lab Sample ID: 400-154790-13

Date Collected: 06/05/18 11:32

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 19:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13270 MW-7

Lab Sample ID: 400-154790-14

Date Collected: 06/05/18 13:03

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 20:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13271 MW-8

Lab Sample ID: 400-154790-15

Date Collected: 06/05/18 14:25

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 20:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13272 MW-9

Lab Sample ID: 400-154790-16

Date Collected: 06/05/18 15:34

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374440	07/09/18 21:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13273 MW-10

Lab Sample ID: 400-154790-17

Date Collected: 06/05/18 16:37

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374497	07/09/18 20:21	CDR	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13274 MW-11

Lab Sample ID: 400-154790-18

Date Collected: 06/05/18 17:53

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374449	07/09/18 20:27	CDR	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13275 MW-21

Lab Sample ID: 400-154790-19

Date Collected: 06/06/18 09:51

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374449	07/09/18 20:27	CDR	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13276 MW-12

Lab Sample ID: 400-154790-20

Date Collected: 06/06/18 11:00

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370280	06/13/18 13:21	JLC	TAL SL
Total/NA	Analysis	9315		1	374449	07/09/18 20:28	CDR	TAL SL
Total/NA	Prep	PrecSep_0			370284	06/13/18 13:43	JLC	TAL SL
Total/NA	Analysis	9320		1	374440	07/09/18 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13277 MW-13

Lab Sample ID: 400-154790-21

Date Collected: 06/06/18 12:08

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 15:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374195	07/05/18 13:50	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13278 MW-24

Lab Sample ID: 400-154790-22

Date Collected: 06/05/18 10:25

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 15:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374195	07/05/18 13:50	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13279 MW-23

Lab Sample ID: 400-154790-23

Date Collected: 06/05/18 11:13

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 15:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374195	07/05/18 13:50	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13280 MW-29

Lab Sample ID: 400-154790-24

Date Collected: 06/05/18 12:29

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374349	07/06/18 08:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13281 MW-30

Lab Sample ID: 400-154790-25

Date Collected: 06/05/18 13:18

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 08:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13282 MW-28

Lab Sample ID: 400-154790-26

Date Collected: 06/05/18 14:05

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 08:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13283 MW-27

Lab Sample ID: 400-154790-27

Date Collected: 06/05/18 14:44

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 08:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13284 MW-26

Lab Sample ID: 400-154790-28

Date Collected: 06/05/18 15:23

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 08:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Client Sample ID: AY13285 MW-32

Lab Sample ID: 400-154790-29

Date Collected: 06/05/18 16:23

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 08:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13286 MW-33

Lab Sample ID: 400-154790-30

Date Collected: 06/05/18 17:08

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374350	07/06/18 08:32	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13287 MW-31

Lab Sample ID: 400-154790-31

Date Collected: 06/05/18 18:04

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 12:17	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13288 MW-25

Lab Sample ID: 400-154790-32

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 12:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:48	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Client Sample ID: AY13289 MW-14

Lab Sample ID: 400-154790-33

Date Collected: 06/06/18 11:25

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 12:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:49	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13290 MW-25 DUP

Lab Sample ID: 400-154790-34

Date Collected: 06/06/18 09:27

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 12:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:49	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13291 FB-2

Lab Sample ID: 400-154790-35

Date Collected: 06/06/18 09:18

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374218	07/06/18 12:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374196	07/05/18 13:49	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Client Sample ID: AY13292 EB-1

Lab Sample ID: 400-154790-36

Date Collected: 06/06/18 12:05

Matrix: Water

Date Received: 06/08/18 09:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			370437	06/14/18 10:45	JLC	TAL SL
Total/NA	Analysis	9315		1	374350	07/06/18 12:19	RTM	TAL SL
Total/NA	Prep	PrecSep_0			370446	06/14/18 11:23	JLC	TAL SL
Total/NA	Analysis	9320		1	374195	07/05/18 13:50	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	375032	07/11/18 17:35	RTM	TAL SL

Laboratory References:

TAL SL = 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

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Rad

Prep Batch: 370280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-1	AY13220 MW-18	Total/NA	Water	PrecSep-21	
400-154790-2	AY13221 MW-17	Total/NA	Water	PrecSep-21	
400-154790-3	AY13222 MW-17 DUP	Total/NA	Water	PrecSep-21	
400-154790-4	AY13223 MW-16	Total/NA	Water	PrecSep-21	
400-154790-5	AY13224 MW-15	Total/NA	Water	PrecSep-21	
400-154790-6	AY13225 FB-3	Total/NA	Water	PrecSep-21	
400-154790-7	AY13263 MW-1	Total/NA	Water	PrecSep-21	
400-154790-8	AY13264 MW-2	Total/NA	Water	PrecSep-21	
400-154790-9	AY13265 MW-2 DUP	Total/NA	Water	PrecSep-21	
400-154790-10	AY13266 MW-3	Total/NA	Water	PrecSep-21	
400-154790-11	AY13267 FB-1	Total/NA	Water	PrecSep-21	
400-154790-12	AY13268 MW-5	Total/NA	Water	PrecSep-21	
400-154790-13	AY13269 MW-6	Total/NA	Water	PrecSep-21	
400-154790-14	AY13270 MW-7	Total/NA	Water	PrecSep-21	
400-154790-15	AY13271 MW-8	Total/NA	Water	PrecSep-21	
400-154790-16	AY13272 MW-9	Total/NA	Water	PrecSep-21	
400-154790-17	AY13273 MW-10	Total/NA	Water	PrecSep-21	
400-154790-18	AY13274 MW-11	Total/NA	Water	PrecSep-21	
400-154790-19	AY13275 MW-21	Total/NA	Water	PrecSep-21	
400-154790-20	AY13276 MW-12	Total/NA	Water	PrecSep-21	
MB 160-370280/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-370280/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-154790-19 DU	AY13275 MW-21	Total/NA	Water	PrecSep-21	

Prep Batch: 370284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-1	AY13220 MW-18	Total/NA	Water	PrecSep_0	
400-154790-2	AY13221 MW-17	Total/NA	Water	PrecSep_0	
400-154790-3	AY13222 MW-17 DUP	Total/NA	Water	PrecSep_0	
400-154790-4	AY13223 MW-16	Total/NA	Water	PrecSep_0	
400-154790-5	AY13224 MW-15	Total/NA	Water	PrecSep_0	
400-154790-6	AY13225 FB-3	Total/NA	Water	PrecSep_0	
400-154790-7	AY13263 MW-1	Total/NA	Water	PrecSep_0	
400-154790-8	AY13264 MW-2	Total/NA	Water	PrecSep_0	
400-154790-9	AY13265 MW-2 DUP	Total/NA	Water	PrecSep_0	
400-154790-10	AY13266 MW-3	Total/NA	Water	PrecSep_0	
400-154790-11	AY13267 FB-1	Total/NA	Water	PrecSep_0	
400-154790-12	AY13268 MW-5	Total/NA	Water	PrecSep_0	
400-154790-13	AY13269 MW-6	Total/NA	Water	PrecSep_0	
400-154790-14	AY13270 MW-7	Total/NA	Water	PrecSep_0	
400-154790-15	AY13271 MW-8	Total/NA	Water	PrecSep_0	
400-154790-16	AY13272 MW-9	Total/NA	Water	PrecSep_0	
400-154790-17	AY13273 MW-10	Total/NA	Water	PrecSep_0	
400-154790-18	AY13274 MW-11	Total/NA	Water	PrecSep_0	
400-154790-19	AY13275 MW-21	Total/NA	Water	PrecSep_0	
400-154790-20	AY13276 MW-12	Total/NA	Water	PrecSep_0	
MB 160-370284/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-370284/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-154790-19 DU	AY13275 MW-21	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Rad (Continued)

Prep Batch: 370437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-21	AY13277 MW-13	Total/NA	Water	PrecSep-21	
400-154790-22	AY13278 MW-24	Total/NA	Water	PrecSep-21	
400-154790-23	AY13279 MW-23	Total/NA	Water	PrecSep-21	
400-154790-24	AY13280 MW-29	Total/NA	Water	PrecSep-21	
400-154790-25	AY13281 MW-30	Total/NA	Water	PrecSep-21	
400-154790-26	AY13282 MW-28	Total/NA	Water	PrecSep-21	
400-154790-27	AY13283 MW-27	Total/NA	Water	PrecSep-21	
400-154790-28	AY13284 MW-26	Total/NA	Water	PrecSep-21	
400-154790-29	AY13285 MW-32	Total/NA	Water	PrecSep-21	
400-154790-30	AY13286 MW-33	Total/NA	Water	PrecSep-21	
400-154790-31	AY13287 MW-31	Total/NA	Water	PrecSep-21	
400-154790-32	AY13288 MW-25	Total/NA	Water	PrecSep-21	
400-154790-33	AY13289 MW-14	Total/NA	Water	PrecSep-21	
400-154790-34	AY13290 MW-25 DUP	Total/NA	Water	PrecSep-21	
400-154790-35	AY13291 FB-2	Total/NA	Water	PrecSep-21	
400-154790-36	AY13292 EB-1	Total/NA	Water	PrecSep-21	
MB 160-370437/19-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-370437/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-154790-24 DU	AY13280 MW-29	Total/NA	Water	PrecSep-21	

Prep Batch: 370446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-154790-21	AY13277 MW-13	Total/NA	Water	PrecSep_0	
400-154790-22	AY13278 MW-24	Total/NA	Water	PrecSep_0	
400-154790-23	AY13279 MW-23	Total/NA	Water	PrecSep_0	
400-154790-24	AY13280 MW-29	Total/NA	Water	PrecSep_0	
400-154790-25	AY13281 MW-30	Total/NA	Water	PrecSep_0	
400-154790-26	AY13282 MW-28	Total/NA	Water	PrecSep_0	
400-154790-27	AY13283 MW-27	Total/NA	Water	PrecSep_0	
400-154790-28	AY13284 MW-26	Total/NA	Water	PrecSep_0	
400-154790-29	AY13285 MW-32	Total/NA	Water	PrecSep_0	
400-154790-30	AY13286 MW-33	Total/NA	Water	PrecSep_0	
400-154790-31	AY13287 MW-31	Total/NA	Water	PrecSep_0	
400-154790-32	AY13288 MW-25	Total/NA	Water	PrecSep_0	
400-154790-33	AY13289 MW-14	Total/NA	Water	PrecSep_0	
400-154790-34	AY13290 MW-25 DUP	Total/NA	Water	PrecSep_0	
400-154790-35	AY13291 FB-2	Total/NA	Water	PrecSep_0	
400-154790-36	AY13292 EB-1	Total/NA	Water	PrecSep_0	
MB 160-370446/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-370446/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-154790-24 DU	AY13280 MW-29	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-370280/23-A
Matrix: Water
Analysis Batch: 374449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370280

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09049	U	0.147	0.148	1.00	0.259	pCi/L	06/13/18 13:21	07/09/18 20:28	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/13/18 13:21	07/09/18 20:28	1

Lab Sample ID: LCS 160-370280/1-A
Matrix: Water
Analysis Batch: 374440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370280

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.8	11.96		1.48	1.00	0.255	pCi/L	101	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	89.4		40 - 110						

Lab Sample ID: 400-154790-19 DU
Matrix: Water
Analysis Batch: 374449

Client Sample ID: AY13275 MW-21
Prep Type: Total/NA
Prep Batch: 370280

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.149	U	-0.02808	U	0.111	1.00	0.271	pCi/L	0.61	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	97.6		40 - 110							

Lab Sample ID: MB 160-370437/19-A
Matrix: Water
Analysis Batch: 374218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370437

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02185	U	0.0541	0.0541	1.00	0.150	pCi/L	06/14/18 10:45	07/06/18 15:01	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					06/14/18 10:45	07/06/18 15:01	1

Lab Sample ID: LCS 160-370437/1-A
Matrix: Water
Analysis Batch: 374349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370437

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.8	11.04		1.32	1.00	0.165	pCi/L	94	68 - 137

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-370437/1-A
Matrix: Water
Analysis Batch: 374349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370437

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110

Lab Sample ID: 400-154790-24 DU
Matrix: Water
Analysis Batch: 374349

Client Sample ID: AY13280 MW-29
Prep Type: Total/NA
Prep Batch: 370437

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0641	U	0.1743	U	0.150	1.00	0.214	pCi/L	0.37	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	87.3		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-370284/23-A
Matrix: Water
Analysis Batch: 374449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370284

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4722		0.250	0.253	1.00	0.372	pCi/L	06/13/18 13:43	07/09/18 14:22	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110	06/13/18 13:43	07/09/18 14:22	1
Y Carrier	94.6		40 - 110	06/13/18 13:43	07/09/18 14:22	1

Lab Sample ID: LCS 160-370284/1-A
Matrix: Water
Analysis Batch: 374440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370284

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.16	9.383		1.10	1.00	0.398	pCi/L	115	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.4		40 - 110
Y Carrier	91.6		40 - 110

Lab Sample ID: 400-154790-19 DU
Matrix: Water
Analysis Batch: 374440

Client Sample ID: AY13275 MW-21
Prep Type: Total/NA
Prep Batch: 370284

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.205	U	0.02416	U	0.183	1.00	0.326	pCi/L	0.66	1

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-154790-19 DU
Matrix: Water
Analysis Batch: 374440

Client Sample ID: AY13275 MW-21
Prep Type: Total/NA
Prep Batch: 370284

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.6		40 - 110
Y Carrier	94.6		40 - 110

Lab Sample ID: MB 160-370446/19-A
Matrix: Water
Analysis Batch: 374195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370446

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.2445	U	0.189	0.191	1.00	0.296	pCi/L	06/14/18 11:23	07/05/18 13:50	1
Carrier	%Yield	Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	104		40 - 110				06/14/18 11:23		07/05/18 13:50	
Y Carrier	91.6		40 - 110				06/14/18 11:23		07/05/18 13:50	

Lab Sample ID: LCS 160-370446/1-A
Matrix: Water
Analysis Batch: 374196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370446

Analyte	LCS LCS		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
	%Yield	Qualifier									
Radium-228			8.17	9.091		1.04	1.00	0.351	pCi/L	111	56 - 140
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	101		40 - 110								
Y Carrier	92.3		40 - 110								

Lab Sample ID: 400-154790-24 DU
Matrix: Water
Analysis Batch: 374196

Client Sample ID: AY13280 MW-29
Prep Type: Total/NA
Prep Batch: 370446

Analyte	Sample Sample		DU DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	0.0804	U	0.1343	U	0.236	1.00	0.399	pCi/L	0.13	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.3		40 - 110							
Y Carrier	90.1		40 - 110							

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-154790-19 DU
Matrix: Water
Analysis Batch: 375032

Client Sample ID: AY13275 MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	-0.0560	U	-0.00391	U	0.214	5.00	0.326	pCi/L	0.11	

Lab Sample ID: 400-154790-24 DU
Matrix: Water
Analysis Batch: 375032

Client Sample ID: AY13280 MW-29
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.145	U	0.3087	U	0.280	5.00	0.399	pCi/L	0.32	

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Chain of Custody Record

Client Information Alabama Power General Test Laboratory 744 County Rd 87 GSC #8 Callera State: Zip AL, 35040 Phone: 205-664-6121(Tel) Email: sgcopela@southernco.com Project Name: CCR Site: Greene County Ash Pond 1153		Sampler: Ben Rothschild/Anthony Goggins Lab P.M.: Whitmire, Chyenne R Phone: E-Mail: chyenne.whitmire@testamericainc.com		Carrier Tracking No(s): 400-56525-24537.1 Page: Page 2 of 2 Job #: 154790						
Due Date Requested: TAT Requested (days): Routine		Analysis Requested 9315_Ra226, 9320_Ra226, Ra226Ra228_GFPc SM 4500 SO4_F SM 4500 Cl_F SM 4500 F_								
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Overstool, BPA/Fraser, Ase)		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SM 4500 F_								
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Overstool, BPA/Fraser, Ase)		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 Other:								
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Overstool, BPA/Fraser, Ase)		Special Instructions/Note: Total Number of containers								
AY13275	6/6/18	0951	G	Water	Y	X	X	X	4	MW-21
AY13276	6/6/18	1100	G	Water	X	X	X	X	2	MW-12
AY13277	6/6/18	1208	G	Water	X	X	X	X	2	MW-13
AY13278	6/5/18	1025	G	Water	X	X	X	X	2	MW-24
AY13279	6/5/18	1113	G	Water	X	X	X	X	2	MW-23
AY13280	6/5/18	1229	G	Water	Y	X	X	X	4	MW-29
AY13281	6/5/18	1318	G	Water	X	X	X	X	2	MW-30
AY13282	6/5/18	1405	G	Water	X	X	X	X	2	MW-28
AY13283	6/5/18	1444	G	Water	X	X	X	X	2	MW-27
AY13284	6/5/18	1523	G	Water	X	X	X	X	2	MW-26
AY13285	6/5/18	1623	G	Water	X	X	X	X	2	MW-32
AY13286	6/5/18	1708	G	Water	X	X	X	X	2	MW-33
AY13287	6/5/18	1804	G	Water	X	X	X	X	2	MW-31
AY13288	6/6/18	0927	G	Water	X	X	X	X	2	MW-25
AY13289	6/6/18	1125	G	Water	X	X	X	X	2	MW-14
AY13290	6/6/18	0927	G	Water	X	X	X	X	2	MW-25 Dup (Sample Duplicate)
AY13291	6/6/18	0918	G	Water	X	X	X	X	2	FB-2 (Field Blank)
AY13292	6/6/18	1205	G	Water	X	X	X	X	2	EB-1 (Equipment Blank)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Empty Kit Relinquished by: Relinquished by: Sarah Copeland Relinquished by: Relinquished by:		Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)								
Date: 6/7/2018, 1100 Date/Time: 6/7/2018, 1100 Date/Time: Date/Time:		Method of Shipment: Date/Time: 6-8-18 0917 Date/Time: Date/Time:								
Custody Seal No.: Δ Yes Δ No		0.36, 21.0°C, 20.1°C IRB								



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-154790-2
SDG Number: Greene County Ash Pond 1153

Login Number: 154790

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: 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	0.3°C IR8
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").	N/A	
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

TestAmerica Job ID: 400-154790-2
 SDG: Greene County Ash Pond 1153

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-18
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-18 *
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-14	09-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-19

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD ELAP		L2305	04-06-19
Arizona	State Program	9	AZ0813	12-08-18
California	State Program	9	2886	06-30-19
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-19
Illinois	NELAP	5	200023	11-30-18
Iowa	State Program	7	373	12-01-18
Kansas	NELAP	7	E-10236	10-31-18
Kentucky (DW)	State Program	4	90125	12-31-18
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA180017	12-31-18
Maryland	State Program	3	310	09-30-18
Michigan	State Program	5	9005	06-30-18 *
Missouri	State Program	7	780	06-30-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-154790-2
SDG: Greene County Ash Pond 1153

Laboratory: TestAmerica St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	MO000542018-1	07-31-18 *
New Jersey	NELAP	2	MO002	06-30-19
New York	NELAP	2	11616	03-31-19
North Dakota	State Program	8	R207	06-30-18 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-18 *
Pennsylvania	NELAP	3	68-00540	02-28-19
South Carolina	State Program	4	85002001	06-30-18 *
Texas	NELAP	6	T104704193-17-11	07-31-18 *
US Fish & Wildlife	Federal		058448	07-31-18
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-18 *
Virginia	NELAP	3	460230	06-14-19
Washington	State Program	10	C592	08-30-18
West Virginia DEP	State Program	3	381	08-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

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

Analytical Report



Sample Group : WMWGREAP_1180
Project/Site : Greene County Ash Pond
Demopolis, AL 36732
For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243
Attention : Dustin Brooks, Greg Dyer, & Corey Ladner
Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

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: 2018.12.05 14:46:04 -0600

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: 2018.12.06 07:54:16 -0600



Metals ICP

Greene County Ash Pond

WMWGREAP_1180

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY26543	632797	WMWGREAP_1180
AY26544	632797	WMWGREAP_1180
AY26545	632797	WMWGREAP_1180
AY26546	632797	WMWGREAP_1180
AY26547	632797	WMWGREAP_1180
AY26548	632797	WMWGREAP_1180
AY26549	632797	WMWGREAP_1180
AY26550	632797	WMWGREAP_1180
AY26551	632797	WMWGREAP_1180
AY26552	632797	WMWGREAP_1180
AY26553	632798	WMWGREAP_1180
AY26554	632798	WMWGREAP_1180
AY26555	632798	WMWGREAP_1180
AY26556	632798	WMWGREAP_1180
AY26557	632798	WMWGREAP_1180
AY26558	632798	WMWGREAP_1180
AY26559	632798	WMWGREAP_1180
AY26560	632798	WMWGREAP_1180
AY26561	632798	WMWGREAP_1180
AY26562	632798	WMWGREAP_1180
AY26563	632799	WMWGREAP_1180
AY26564	632799	WMWGREAP_1180
AY26565	632799	WMWGREAP_1180
AY26566	632799	WMWGREAP_1180
AY26567	632799	WMWGREAP_1180
AY26568	632799	WMWGREAP_1180
AY26569	632799	WMWGREAP_1180
AY26570	632799	WMWGREAP_1180
AY26571	632799	WMWGREAP_1180
AY26572	632799	WMWGREAP_1180
AY26573	632800	WMWGREAP_1180
AY26574	632800	WMWGREAP_1180
AY26575	632800	WMWGREAP_1180
AY26576	632800	WMWGREAP_1180
AY26577	632800	WMWGREAP_1180
AY26578	632800	WMWGREAP_1180



4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
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:

- 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 spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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 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. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects except for the following:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution</u>
AY26551	Calcium	20.3x
AY26553	Calcium	101.5x
AY26558	Calcium	10.15x
AY26560	Calcium	10.15x
AY26570	Calcium	10.15x
AY26573	Calcium	10.15x
AY26574	Calcium	10.15x

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



Metals ICPMS

Greene County Ash Pond

WMWGREAP_1180

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY26543	632739	WMWGREAP_1180
AY26544	632739	WMWGREAP_1180
AY26545	632739	WMWGREAP_1180
AY26546	632739	WMWGREAP_1180
AY26547	632739	WMWGREAP_1180
AY26548	632739	WMWGREAP_1180
AY26549	632739	WMWGREAP_1180
AY26550	632739	WMWGREAP_1180
AY26551	632739	WMWGREAP_1180
AY26552	632739	WMWGREAP_1180
AY26553	632740	WMWGREAP_1180
AY26554	632740	WMWGREAP_1180
AY26555	632740	WMWGREAP_1180
AY26556	632740	WMWGREAP_1180
AY26557	632740	WMWGREAP_1180
AY26558	632740	WMWGREAP_1180
AY26559	632740	WMWGREAP_1180
AY26560	632740	WMWGREAP_1180
AY26561	632740	WMWGREAP_1180
AY26562	632740	WMWGREAP_1180
AY26563	632741	WMWGREAP_1180
AY26564	632741	WMWGREAP_1180
AY26565	632741	WMWGREAP_1180
AY26566	632741	WMWGREAP_1180
AY26567	632741	WMWGREAP_1180
AY26568	632741	WMWGREAP_1180
AY26569	632741	WMWGREAP_1180
AY26570	632741	WMWGREAP_1180
AY26571	632741	WMWGREAP_1180
AY26572	632741	WMWGREAP_1180
AY26573	632742	WMWGREAP_1180
AY26574	632742	WMWGREAP_1180
AY26575	632742	WMWGREAP_1180
AY26576	632742	WMWGREAP_1180
AY26577	632742	WMWGREAP_1180
AY26578	632742	WMWGREAP_1180



4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
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:

- 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 at a x5.075 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Mercury

Greene County Ash Pond

WMWGREAP_1180

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY26543	632470	WMWGREAP_1180
AY26544	632470	WMWGREAP_1180
AY26545	632470	WMWGREAP_1180
AY26546	632470	WMWGREAP_1180
AY26547	632470	WMWGREAP_1180
AY26548	632470	WMWGREAP_1180
AY26549	632470	WMWGREAP_1180
AY26550	632470	WMWGREAP_1180
AY26551	632470	WMWGREAP_1180
AY26552	632470	WMWGREAP_1180
AY26553	632471	WMWGREAP_1180
AY26554	632471	WMWGREAP_1180
AY26555	632471	WMWGREAP_1180
AY26556	632471	WMWGREAP_1180
AY26557	632471	WMWGREAP_1180
AY26558	632471	WMWGREAP_1180
AY26559	632471	WMWGREAP_1180
AY26560	632471	WMWGREAP_1180
AY26561	632471	WMWGREAP_1180
AY26562	632471	WMWGREAP_1180
AY26563	632472	WMWGREAP_1180
AY26564	632472	WMWGREAP_1180
AY26565	632472	WMWGREAP_1180
AY26566	632472	WMWGREAP_1180
AY26567	632472	WMWGREAP_1180
AY26568	632472	WMWGREAP_1180
AY26569	632472	WMWGREAP_1180
AY26570	632472	WMWGREAP_1180
AY26571	632472	WMWGREAP_1180
AY26572	632472	WMWGREAP_1180
AY26573	632473	WMWGREAP_1180
AY26574	632473	WMWGREAP_1180
AY26575	632473	WMWGREAP_1180
AY26576	632473	WMWGREAP_1180
AY26577	632473	WMWGREAP_1180
AY26578	632473	WMWGREAP_1180



4. All of the above samples were analyzed and prepared by EPA 245.1.
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:

- 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_1180

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY26543	632592	WMWGREAP_1180
AY26544	632592	WMWGREAP_1180
AY26545	632592	WMWGREAP_1180
AY26546	632592	WMWGREAP_1180
AY26547	632592	WMWGREAP_1180
AY26548	632592	WMWGREAP_1180
AY26549	632592	WMWGREAP_1180
AY26550	632592	WMWGREAP_1180
AY26551	632592	WMWGREAP_1180
AY26552	632592	WMWGREAP_1180
AY26553	632593	WMWGREAP_1180
AY26554	632593	WMWGREAP_1180
AY26555	632853	WMWGREAP_1180
AY26556	632853	WMWGREAP_1180
AY26557	632853	WMWGREAP_1180
AY26558	632853	WMWGREAP_1180
AY26559	632853	WMWGREAP_1180
AY26560	632853	WMWGREAP_1180
AY26561	632854	WMWGREAP_1180
AY26562	632593	WMWGREAP_1180
AY26563	632593	WMWGREAP_1180
AY26564	632593	WMWGREAP_1180
AY26565	632593	WMWGREAP_1180
AY26566	632593	WMWGREAP_1180
AY26567	632593	WMWGREAP_1180
AY26568	632854	WMWGREAP_1180
AY26569	632854	WMWGREAP_1180
AY26570	632854	WMWGREAP_1180
AY26571	632854	WMWGREAP_1180
AY26572	632854	WMWGREAP_1180
AY26573	632854	WMWGREAP_1180
AY26574	632854	WMWGREAP_1180
AY26575	632593	WMWGREAP_1180
AY26576	632593	WMWGREAP_1180
AY26577	632854	WMWGREAP_1180
AY26578	632854	WMWGREAP_1180



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%, except for the following:
 - Precision was outside of the acceptable limit for sample AY26578, but the results were below the reporting limit. Therefore, the results are acceptable.
- 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:
 - AY26545
 - AY26557
 - AY26577
 - AY26578

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY26543

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	J 0.00195	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0588	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.262	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	24.1	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0171	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0641	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	J 0.00944	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	193	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY26543

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit	
				Limit	Spike				Limit	Rec	Limit	Prec			
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115		89.0	70 to 130		4.41	20
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115		91.9	70 to 130		3.30	20
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15		98.0	70 to 130		0.407	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115		89.3	70 to 130		4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115		95.6	70 to 130		2.35	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75		94.0	70 to 130		0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115		94.5	70 to 130		2.89	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115		86.6	70 to 130		3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115		94.8	70 to 130		3.78	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23		102	70 to 130		0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046		94.8	70 to 130		0.521	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115		88.4	70 to 130		3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115		91.5	70 to 130		3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115		85.1	70 to 130		4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115		84.3	70 to 130		11.3	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY26543

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60			2.26	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY26544

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0509	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.151	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	29.7	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0902	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0548	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	200	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY26544

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY26544

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60		2.26	5

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.

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26545

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26545

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115		89.0	70 to 130	4.41	20
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15		98.0	70 to 130	0.407	20
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115		91.9	70 to 130	3.30	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75		94.0	70 to 130	0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115		94.5	70 to 130	2.89	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115		89.3	70 to 130	4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115		95.6	70 to 130	2.35	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23		102	70 to 130	0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046		94.8	70 to 130	0.521	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115		88.4	70 to 130	3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115		91.5	70 to 130	3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115		85.1	70 to 130	4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115		84.3	70 to 130	11.3	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115		86.6	70 to 130	3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115		94.8	70 to 130	3.78	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26545

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60			2.26	5

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY26546

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0255	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.127	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	28.8	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0912	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0906	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	210	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY26546

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20	
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20	
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20	
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20	
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20	
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20	
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20	
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20	
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20	
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20	
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20	
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20	
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20	
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20	
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY26546

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
				Limit			Duplicate	LCS	Limit	Limit		Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60		2.26	5

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY26547

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0243	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.128	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	29.2	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0913	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0861	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	210	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

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Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY26547

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY26547

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60		2.26	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY26548

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	J 0.00497	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.113	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.104	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	29.4	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	J 0.00275	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0914	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0440	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	J 0.000623	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	208	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY26548

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike	MS				Limit	Rec	Limit	Prec		
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20		
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20		
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20		
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20		
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20		
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20		
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20		
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20		
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20		
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20		
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20		
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20		
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20		
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20		
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20		

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY26548

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60		2.26	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY26549

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0271	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.614	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	49.2	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0158	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.547	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	331	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY26549

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY26549

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec			
				Limit			Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60			2.26	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY26550

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.0701	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0574	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.47	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	77.4	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0141	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.540	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	J 0.000354	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	447	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY26550

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20	
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20	
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20	
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20	
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20	
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20	
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20	
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20	
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20	
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20	
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20	
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20	
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20	
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20	
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY26550

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60			2.26	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY26551

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.299	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.202	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.74	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		20.3	2.03	10.15	81.6	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0321	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.583	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0418	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		50	634	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY26551

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15	98.0	70 to 130	0.407	20
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115	89.0	70 to 130	4.41	20
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115	91.9	70 to 130	3.30	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115	86.6	70 to 130	3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115	94.8	70 to 130	3.78	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75	94.0	70 to 130	0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115	94.5	70 to 130	2.89	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115	89.3	70 to 130	4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115	95.6	70 to 130	2.35	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23	102	70 to 130	0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046	94.8	70 to 130	0.521	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115	88.4	70 to 130	3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115	91.5	70 to 130	3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115	85.1	70 to 130	4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115	84.3	70 to 130	11.3	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY26551

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60			2.26	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY26552

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.0509	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.109	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.48	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	72.7	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0158	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.369	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	368	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY26552

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26552	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.143	0.148	0.0955	0.085 to 0.115		91.9	70 to 130	3.30	20
AY26552	Boron, Total	mg/L	-0.000646	0.044	1.00	2.46	2.45	0.966	0.85 to 1.15		98.0	70 to 130	0.407	20
AY26552	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0890	0.0930	0.0937	0.085 to 0.115		89.0	70 to 130	4.41	20
AY26552	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0893	0.0931	0.0935	0.085 to 0.115		89.3	70 to 130	4.22	20
AY26552	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0956	0.0978	0.0959	0.085 to 0.115		95.6	70 to 130	2.35	20
AY26552	Lithium, Total	mg/L	-0.0000206	0.022	0.200	0.574	0.572	0.193	0.17 to 0.23		102	70 to 130	0.349	20
AY26552	Mercury, Total by CVAA	mg/L	0.00000434	0.0005	0.004	0.00379	0.00377	0.00388	0.0034 to 0.0046		94.8	70 to 130	0.521	20
AY26552	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.196	0.202	0.0900	0.085 to 0.115		86.6	70 to 130	3.00	20
AY26552	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0948	0.0984	0.108	0.085 to 0.115		94.8	70 to 130	3.78	20
AY26552	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0884	0.0913	0.0921	0.085 to 0.115		88.4	70 to 130	3.21	20
AY26552	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.107	0.111	0.0953	0.085 to 0.115		91.5	70 to 130	3.83	20
AY26552	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0851	0.0891	0.0924	0.085 to 0.115		85.1	70 to 130	4.56	20
AY26552	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0843	0.0943	0.0998	0.085 to 0.115		84.3	70 to 130	11.3	20
AY26552	Calcium, Total	mg/L	0.00958	0.22	5.00	77.4	76.9	5.01	4.25 to 5.75		94.0	70 to 130	0.648	20
AY26552	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0945	0.0973	0.0977	0.085 to 0.115		94.5	70 to 130	2.89	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY26552

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY26552	Solids, Dissolved	mg/L	0.0000	25			385	57.0	40 to 60		2.26	5

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY26553

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.0189	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0348	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.247	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		101.5	10.15	50.75	186	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0898	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		100	1450	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY26553

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115		93.1	70 to 130	2.82	20
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046		93.9	70 to 130	2.40	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115		92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115		88.4	70 to 130	3.03	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115		89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115		95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115		93.4	70 to 130	3.93	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115		92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15		98.3	70 to 130	0.0688	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115		93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115		92.8	70 to 130	6.08	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115		94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23		99.6	70 to 130	2.28	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75		103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115		94.2	70 to 130	3.73	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY26553

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60			0.00	5

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Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY26554

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.00850	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0286	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.131	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	75.1	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0101	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	522	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY26554

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike	MS				Limit	Rec	Limit	Prec		
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20		
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20		
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20		
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20		
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20		
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20		
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20		
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20		
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20		
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20		
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20		
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20		
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20		
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20		
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20		

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY26554

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
				Limit			Duplicate	LCS	Limit	Limit		Limit
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60		0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY26555

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0807	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	J 0.0995	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	9.21	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.00791	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	153	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY26555

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY26555

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY26560	Solids, Dissolved	mg/L	-1.00	25			508	52.0	40 to 60		0.197	5

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY26556

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.432	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.306	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.508	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	78.9	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.00545	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.116	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	J 0.00318	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	409	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY26556

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike	MS				Limit	Rec	Limit	Prec		
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20		
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20		
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20		
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20		
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20		
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20		
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20		
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20		
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20		
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20		
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20		
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20		
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20		
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20		
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20		

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY26556

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26560	Solids, Dissolved	mg/L	-1.00	25			508	52.0	40 to 60		0.197	5

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26557

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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Comments:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26557

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26557

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY26560	Solids, Dissolved	mg/L	-1.00	25			508	52.0	40 to 60		0.197	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY26558

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.0289	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0575	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.908	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	105	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0124	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.604	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0155	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		50	528	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY26558

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY26558

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Prec	
AY26560	Solids, Dissolved	mg/L	-1.00	25			508	52.0	40 to 60			0.197	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY26559

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.0152	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.171	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.26	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	68.5	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0150	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.110	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	J 0.00748	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	342	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY26559

Sample	Analysis	Units	MB	MB			LCS			Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY26559

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26560	Solids, Dissolved	mg/L	-1.00	25			508	52.0	40 to 60		0.197	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY26560

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.00980	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.141	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.11	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	107	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.0145	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0616	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		50	506	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY26560

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY26560

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26560	Solids, Dissolved	mg/L	-1.00	25			508	52.0	40 to 60		0.197	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY26561

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0855	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.80	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	68.1	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	0.00651	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	0.0371	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		50	514	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY26561

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115	93.1	70 to 130	2.82	20
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046	93.9	70 to 130	2.40	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115	94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23	99.6	70 to 130	2.28	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115	92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115	88.4	70 to 130	3.03	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75	103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115	94.2	70 to 130	3.73	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115	92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15	98.3	70 to 130	0.0688	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115	89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115	95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115	93.4	70 to 130	3.93	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115	93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115	92.8	70 to 130	6.08	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY26561

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY26562

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0123	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	10.5	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	53.3	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY26562

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26562	Mercury, Total by CVAA	mg/L	0.00000470	0.0005	0.004	0.00376	0.00385	0.00392	0.0034 to 0.0046		93.9	70 to 130	2.40	20
AY26562	Cadmium, Total	mg/L	0.00000155	0.00066	0.10	0.0931	0.0905	0.0921	0.085 to 0.115		93.1	70 to 130	2.82	20
AY26562	Beryllium, Total	mg/L	0.0000278	0.00132	0.10	0.0932	0.0996	0.108	0.085 to 0.115		93.2	70 to 130	6.73	20
AY26562	Selenium, Total	mg/L	0.0000223	0.0044	0.10	0.0928	0.0987	0.0998	0.085 to 0.115		92.8	70 to 130	6.08	20
AY26562	Barium, Total	mg/L	0.00000384	0.0044	0.10	0.102	0.0996	0.0900	0.085 to 0.115		89.4	70 to 130	2.09	20
AY26562	Cobalt, Total	mg/L	0.00000138	0.0044	0.10	0.0957	0.0939	0.0953	0.085 to 0.115		95.7	70 to 130	1.99	20
AY26562	Lead, Total	mg/L	0.0000165	0.0022	0.10	0.0934	0.0972	0.0977	0.085 to 0.115		93.4	70 to 130	3.93	20
AY26562	Antimony, Total	mg/L	0.0000508	0.00176	0.10	0.0925	0.0900	0.0937	0.085 to 0.115		92.5	70 to 130	2.74	20
AY26562	Boron, Total	mg/L	0.00110	0.044	1.00	0.983	0.982	0.979	0.85 to 1.15		98.3	70 to 130	0.0688	20
AY26562	Calcium, Total	mg/L	0.00383	0.22	5.00	15.6	15.5	5.05	4.25 to 5.75		103	70 to 130	0.887	20
AY26562	Thallium, Total	mg/L	0.0000121	0.00044	0.10	0.0942	0.0978	0.0959	0.085 to 0.115		94.2	70 to 130	3.73	20
AY26562	Arsenic, Total	mg/L	0.0000143	0.0022	0.10	0.0947	0.0927	0.0955	0.085 to 0.115		94.7	70 to 130	2.11	20
AY26562	Lithium, Total	mg/L	-0.0000295	0.022	0.20	0.199	0.195	0.193	0.17 to 0.23		99.6	70 to 130	2.28	20
AY26562	Chromium, Total	mg/L	0.0000491	0.0044	0.10	0.0929	0.0912	0.0935	0.085 to 0.115		92.9	70 to 130	1.80	20
AY26562	Molybdenum, Total	mg/L	0.0000111	0.0044	0.10	0.0884	0.0857	0.0924	0.085 to 0.115		88.4	70 to 130	3.03	20

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Laboratory certification ID: E571114

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Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY26562

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60			0.00	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY26563

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0211	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	7.39	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	66.0	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY26563

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20	
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20	
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20	
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20	
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20	
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20	
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20	
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20	
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20	
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20	
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20	
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20	
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20	
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20	
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20	

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY26563

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60			0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY26564

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0726	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.42	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	61.3	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY26564

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26572	Cobalt, Total	mg/L	0.0000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.0000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Barium, Total	mg/L	0.0000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20
AY26572	Cadmium, Total	mg/L	0.0000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.0000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY26564

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60			0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY26565

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0463	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	1.64	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY26565

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY26565

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60			0.00	5

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Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY26566

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0379	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	J 0.193	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	J 0.00367	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY26566

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY26566

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
				Limit			Duplicate	LCS	Limit	Limit		Limit
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60		0.00	5

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY26567

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.249	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.00	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	J 0.000646	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	36.0	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY26567

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY26567

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
				Limit			Duplicate	LCS	Limit	Limit		Limit
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60		0.00	5

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Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY26568

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0582	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	0.746	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	26.0	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY26568

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20	
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20	
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20	
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20	
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20	
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20	
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20	
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20	
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20	
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20	
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20	
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20	
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20	
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20	
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY26568

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY26569

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0387	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	J 0.000757	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	4.81	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	J 0.00202	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	40.7	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY26569

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY26569

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY26570

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	0.00685	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0936	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	J 0.0268	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	110	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	J 0.00439	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	354	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY26570

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY26570

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY26571

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.100	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	30.7	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	163	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY26571

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AY26572	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20

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Laboratory certification ID: E571114

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY26571

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
				Limit			Duplicate	LCS	Limit	Limit		Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY26572

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0281	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	30.3	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	96.7	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

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Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY26572

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26572	Cobalt, Total	mg/L	0.0000569	0.0044	0.10	0.0934	0.0938	0.0969	0.085 to 0.115	93.4	70 to 130	0.344	20
AY26572	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.0988	0.0984	0.0984	0.085 to 0.115	98.8	70 to 130	0.395	20
AY26572	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0904	0.0903	0.0955	0.085 to 0.115	90.4	70 to 130	0.117	20
AY26572	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0960	0.0981	0.105	0.085 to 0.115	96.0	70 to 130	2.12	20
AY26572	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0927	0.0929	0.0980	0.085 to 0.115	92.7	70 to 130	0.281	20
AY26572	Boron, Total	mg/L	0.000717	0.044	1.00	0.991	0.986	0.960	0.85 to 1.15	99.1	70 to 130	0.469	20
AY26572	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0904	0.0903	0.0981	0.085 to 0.115	90.4	70 to 130	0.0801	20
AY26572	Mercury, Total by CVAA	mg/L	0.00000566	0.0005	0.004	0.00382	0.00378	0.00392	0.0034 to 0.0046	95.6	70 to 130	1.27	20
AY26572	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0903	0.0903	0.0951	0.085 to 0.115	90.3	70 to 130	0.0130	20
AY26572	Calcium, Total	mg/L	0.00590	0.22	5.00	35.4	35.1	4.95	4.25 to 5.75	102	70 to 130	0.760	20
AY26572	Lithium, Total	mg/L	-0.0000321	0.022	0.20	0.200	0.202	0.189	0.17 to 0.23	99.8	70 to 130	1.11	20
AY26572	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0870	0.0872	0.0965	0.085 to 0.115	87.0	70 to 130	0.214	20
AY26572	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0782	0.0813	0.0951	0.085 to 0.115	78.2	70 to 130	3.91	20
AY26572	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.114	0.114	0.0930	0.085 to 0.115	86.1	70 to 130	0.389	20
AY26572	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0979	0.0980	0.0998	0.085 to 0.115	97.9	70 to 130	0.0966	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY26572

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY26573

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0527	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	1.60	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	124	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	J 0.00258	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	J 0.0141	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		50	576	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY26573

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AY26578	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0919	0.0892	0.0951	0.085 to 0.115	91.9	70 to 130	3.01	20
AY26578	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0947	0.0930	0.0951	0.085 to 0.115	94.7	70 to 130	1.80	20
AY26578	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0996	0.100	0.0998	0.085 to 0.115	99.6	70 to 130	0.620	20
AY26578	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0939	0.0929	0.0981	0.085 to 0.115	93.9	70 to 130	1.03	20
AY26578	Boron, Total	mg/L	0.000364	0.044	1.00	0.977	0.957	0.976	0.85 to 1.15	97.7	70 to 130	2.04	20
AY26578	Calcium, Total	mg/L	0.00113	0.22	5.00	5.02	4.94	5.05	4.25 to 5.75	100	70 to 130	1.69	20
AY26578	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0946	0.0946	0.0980	0.085 to 0.115	94.6	70 to 130	0.0022220	20
AY26578	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0975	0.0980	0.105	0.085 to 0.115	97.5	70 to 130	0.499	20
AY26578	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0979	0.0966	0.0969	0.085 to 0.115	97.9	70 to 130	1.31	20
AY26578	Mercury, Total by CVAA	mg/L	0.00000924	0.0005	0.004	0.00378	0.00409	0.00392	0.0034 to 0.0046	94.6	70 to 130	7.75	20
AY26578	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0937	0.0934	0.0955	0.085 to 0.115	93.7	70 to 130	0.259	20
AY26578	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0907	0.0892	0.0965	0.085 to 0.115	90.7	70 to 130	1.65	20
AY26578	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.101	0.101	0.0984	0.085 to 0.115	101	70 to 130	0.134	20
AY26578	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.0908	0.0900	0.0930	0.085 to 0.115	90.8	70 to 130	0.888	20
AY26578	Lithium, Total	mg/L	-0.0000621	0.022	0.20	0.197	0.191	0.193	0.17 to 0.23	98.7	70 to 130	3.05	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY26573

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60	0.00	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY26574

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0739	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	0.677	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	175	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	J 0.00277	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		100	1050	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY26574

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AY26578	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0919	0.0892	0.0951	0.085 to 0.115	91.9	70 to 130	3.01	20
AY26578	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0946	0.0946	0.0980	0.085 to 0.115	94.6	70 to 130	0.0022220	
AY26578	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0975	0.0980	0.105	0.085 to 0.115	97.5	70 to 130	0.499	20
AY26578	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0947	0.0930	0.0951	0.085 to 0.115	94.7	70 to 130	1.80	20
AY26578	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0996	0.100	0.0998	0.085 to 0.115	99.6	70 to 130	0.620	20
AY26578	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0979	0.0966	0.0969	0.085 to 0.115	97.9	70 to 130	1.31	20
AY26578	Mercury, Total by CVAA	mg/L	0.00000924	0.0005	0.004	0.00378	0.00409	0.00392	0.0034 to 0.0046	94.6	70 to 130	7.75	20
AY26578	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0939	0.0929	0.0981	0.085 to 0.115	93.9	70 to 130	1.03	20
AY26578	Boron, Total	mg/L	0.000364	0.044	1.00	0.977	0.957	0.976	0.85 to 1.15	97.7	70 to 130	2.04	20
AY26578	Calcium, Total	mg/L	0.00113	0.22	5.00	5.02	4.94	5.05	4.25 to 5.75	100	70 to 130	1.69	20
AY26578	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0937	0.0934	0.0955	0.085 to 0.115	93.7	70 to 130	0.259	20
AY26578	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0907	0.0892	0.0965	0.085 to 0.115	90.7	70 to 130	1.65	20
AY26578	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.101	0.101	0.0984	0.085 to 0.115	101	70 to 130	0.134	20
AY26578	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.0908	0.0900	0.0930	0.085 to 0.115	90.8	70 to 130	0.888	20
AY26578	Lithium, Total	mg/L	-0.0000621	0.022	0.20	0.197	0.191	0.193	0.17 to 0.23	98.7	70 to 130	3.05	20

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Laboratory certification ID: E571114

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Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY26574

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60		0.00	5

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Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AY26575

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0128	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	10.5	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	46.7	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AY26575

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26578	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0919	0.0892	0.0951	0.085 to 0.115	91.9	70 to 130	3.01	20
AY26578	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0939	0.0929	0.0981	0.085 to 0.115	93.9	70 to 130	1.03	20
AY26578	Boron, Total	mg/L	0.000364	0.044	1.00	0.977	0.957	0.976	0.85 to 1.15	97.7	70 to 130	2.04	20
AY26578	Calcium, Total	mg/L	0.00113	0.22	5.00	5.02	4.94	5.05	4.25 to 5.75	100	70 to 130	1.69	20
AY26578	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0979	0.0966	0.0969	0.085 to 0.115	97.9	70 to 130	1.31	20
AY26578	Mercury, Total by CVAA	mg/L	0.00000924	0.0005	0.004	0.00378	0.00409	0.00392	0.0034 to 0.0046	94.6	70 to 130	7.75	20
AY26578	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0947	0.0930	0.0951	0.085 to 0.115	94.7	70 to 130	1.80	20
AY26578	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0996	0.100	0.0998	0.085 to 0.115	99.6	70 to 130	0.620	20
AY26578	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0937	0.0934	0.0955	0.085 to 0.115	93.7	70 to 130	0.259	20
AY26578	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0907	0.0892	0.0965	0.085 to 0.115	90.7	70 to 130	1.65	20
AY26578	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.101	0.101	0.0984	0.085 to 0.115	101	70 to 130	0.134	20
AY26578	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.0908	0.0900	0.0930	0.085 to 0.115	90.8	70 to 130	0.888	20
AY26578	Lithium, Total	mg/L	-0.0000621	0.022	0.20	0.197	0.191	0.193	0.17 to 0.23	98.7	70 to 130	3.05	20
AY26578	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0946	0.0946	0.0980	0.085 to 0.115	94.6	70 to 130	0.0022220	20
AY26578	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0975	0.0980	0.105	0.085 to 0.115	97.5	70 to 130	0.499	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AY26575

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
				Limit			Duplicate	LCS	Limit	Limit		Limit
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60		0.00	5

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY26576

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	0.0506	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	1.63	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/15/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	11/9/2018	SM 2540C		1			11/09/2018	Date

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY26576

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AY26578	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0919	0.0892	0.0951	0.085 to 0.115	91.9	70 to 130	3.01	20	
AY26578	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0979	0.0966	0.0969	0.085 to 0.115	97.9	70 to 130	1.31	20	
AY26578	Mercury, Total by CVAA	mg/L	0.00000924	0.0005	0.004	0.00378	0.00409	0.00392	0.0034 to 0.0046	94.6	70 to 130	7.75	20	
AY26578	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0947	0.0930	0.0951	0.085 to 0.115	94.7	70 to 130	1.80	20	
AY26578	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0996	0.100	0.0998	0.085 to 0.115	99.6	70 to 130	0.620	20	
AY26578	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0946	0.0946	0.0980	0.085 to 0.115	94.6	70 to 130	0.0022220	20	
AY26578	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0975	0.0980	0.105	0.085 to 0.115	97.5	70 to 130	0.499	20	
AY26578	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0939	0.0929	0.0981	0.085 to 0.115	93.9	70 to 130	1.03	20	
AY26578	Boron, Total	mg/L	0.000364	0.044	1.00	0.977	0.957	0.976	0.85 to 1.15	97.7	70 to 130	2.04	20	
AY26578	Calcium, Total	mg/L	0.00113	0.22	5.00	5.02	4.94	5.05	4.25 to 5.75	100	70 to 130	1.69	20	
AY26578	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.0908	0.0900	0.0930	0.085 to 0.115	90.8	70 to 130	0.888	20	
AY26578	Lithium, Total	mg/L	-0.0000621	0.022	0.20	0.197	0.191	0.193	0.17 to 0.23	98.7	70 to 130	3.05	20	
AY26578	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0937	0.0934	0.0955	0.085 to 0.115	93.7	70 to 130	0.259	20	
AY26578	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0907	0.0892	0.0965	0.085 to 0.115	90.7	70 to 130	1.65	20	
AY26578	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.101	0.101	0.0984	0.085 to 0.115	101	70 to 130	0.134	20	

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY26576

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
				Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26576	Solids, Dissolved	mg/L	0.0000	25			21.3	57.0	40 to 60			0.00	5

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: 150mL of sample was filtered for TDS. LBM 12/04/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26577

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26577

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26578	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0919	0.0892	0.0951	0.085 to 0.115	91.9	70 to 130	3.01	20
AY26578	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0939	0.0929	0.0981	0.085 to 0.115	93.9	70 to 130	1.03	20
AY26578	Boron, Total	mg/L	0.000364	0.044	1.00	0.977	0.957	0.976	0.85 to 1.15	97.7	70 to 130	2.04	20
AY26578	Calcium, Total	mg/L	0.00113	0.22	5.00	5.02	4.94	5.05	4.25 to 5.75	100	70 to 130	1.69	20
AY26578	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0947	0.0930	0.0951	0.085 to 0.115	94.7	70 to 130	1.80	20
AY26578	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0996	0.100	0.0998	0.085 to 0.115	99.6	70 to 130	0.620	20
AY26578	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0946	0.0946	0.0980	0.085 to 0.115	94.6	70 to 130	0.0022220	20
AY26578	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0975	0.0980	0.105	0.085 to 0.115	97.5	70 to 130	0.499	20
AY26578	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0937	0.0934	0.0955	0.085 to 0.115	93.7	70 to 130	0.259	20
AY26578	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0907	0.0892	0.0965	0.085 to 0.115	90.7	70 to 130	1.65	20
AY26578	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.101	0.101	0.0984	0.085 to 0.115	101	70 to 130	0.134	20
AY26578	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.0908	0.0900	0.0930	0.085 to 0.115	90.8	70 to 130	0.888	20
AY26578	Lithium, Total	mg/L	-0.0000621	0.022	0.20	0.197	0.191	0.193	0.17 to 0.23	98.7	70 to 130	3.05	20
AY26578	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0979	0.0966	0.0969	0.085 to 0.115	97.9	70 to 130	1.31	20
AY26578	Mercury, Total by CVAA	mg/L	0.00000924	0.0005	0.004	0.00378	0.00409	0.00392	0.0034 to 0.0046	94.6	70 to 130	7.75	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26577

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60			0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPEB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY26578

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	11/15/2018	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	ABB	11/15/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	ABB	11/15/2018	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	11/16/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	KRC	11/13/2018	SM 2540C		1			11/13/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Precision failed for TDS, but the results were below the reporting limit. Therefore, the result is acceptable. LBM 11/16/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPEB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY26578

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY26578	Selenium, Total	mg/L	0.0000104	0.0044	0.10	0.0919	0.0892	0.0951	0.085 to 0.115	91.9	70 to 130	3.01	20
AY26578	Antimony, Total	mg/L	0.0000456	0.00176	0.10	0.0939	0.0929	0.0981	0.085 to 0.115	93.9	70 to 130	1.03	20
AY26578	Boron, Total	mg/L	0.000364	0.044	1.00	0.977	0.957	0.976	0.85 to 1.15	97.7	70 to 130	2.04	20
AY26578	Calcium, Total	mg/L	0.00113	0.22	5.00	5.02	4.94	5.05	4.25 to 5.75	100	70 to 130	1.69	20
AY26578	Arsenic, Total	mg/L	0.0000196	0.0022	0.10	0.0946	0.0946	0.0980	0.085 to 0.115	94.6	70 to 130	0.0022220	20
AY26578	Beryllium, Total	mg/L	0.0000231	0.00132	0.10	0.0975	0.0980	0.105	0.085 to 0.115	97.5	70 to 130	0.499	20
AY26578	Cobalt, Total	mg/L	0.00000569	0.0044	0.10	0.0979	0.0966	0.0969	0.085 to 0.115	97.9	70 to 130	1.31	20
AY26578	Mercury, Total by CVAA	mg/L	0.00000924	0.0005	0.004	0.00378	0.00409	0.00392	0.0034 to 0.0046	94.6	70 to 130	7.75	20
AY26578	Chromium, Total	mg/L	0.0000370	0.0044	0.10	0.0937	0.0934	0.0955	0.085 to 0.115	93.7	70 to 130	0.259	20
AY26578	Molybdenum, Total	mg/L	0.00000991	0.0044	0.10	0.0907	0.0892	0.0965	0.085 to 0.115	90.7	70 to 130	1.65	20
AY26578	Thallium, Total	mg/L	0.0000173	0.00044	0.10	0.101	0.101	0.0984	0.085 to 0.115	101	70 to 130	0.134	20
AY26578	Cadmium, Total	mg/L	0.00000486	0.00066	0.10	0.0947	0.0930	0.0951	0.085 to 0.115	94.7	70 to 130	1.80	20
AY26578	Lead, Total	mg/L	0.0000171	0.0022	0.10	0.0996	0.100	0.0998	0.085 to 0.115	99.6	70 to 130	0.620	20
AY26578	Barium, Total	mg/L	0.00000936	0.0044	0.10	0.0908	0.0900	0.0930	0.085 to 0.115	90.8	70 to 130	0.888	20
AY26578	Lithium, Total	mg/L	-0.0000621	0.022	0.20	0.197	0.191	0.193	0.17 to 0.23	98.7	70 to 130	3.05	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Precision failed for TDS, but the results were below the reporting limit. Therefore, the result is acceptable. LBM 11/16/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPEB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY26578

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Rec	Limit	Limit	
AY26578	Solids, Dissolved	mg/L	-1.00	25			-1.3	52.0	40 to 60			0.00	5

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Precision failed for TDS, but the results were below the reporting limit. Therefore, the result is acceptable. LBM 11/16/18

CC:

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.
E	Estimated reported value exceeded calibration range.
J	Reported value is an estimate because concentration is less than reporting limit.
N	Organic constituents tentatively identified. Confirmation is needed.
R	Matrix spike recovery is out of range.
U	Compound was analyzed, but not detected.
P	Precision is out of range.
C	Analyte was verified by re-analysis.
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.
L	Check standard is outside of the required specification limit.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
F	Water Field Group (WFG) qualifier; see comments for more information



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 11/08/2018 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer, Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Ben Rothschild	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	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments pH strips used: 6803-35848-20-9, 6959-37694-30-15, 6959-37693-30-14 LBM 11/08/18

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	11/5/18	12:35	3	Groundwater		AY26543
MW-21	11/05/2018	13:35	3	Groundwater		AY26544
FB-1	11/05/2018	13:55	3	Field Blank		AY26545
MW-12	11/05/2018	14:40	3	Groundwater		AY26546
MW-12 DUP	11/05/2018	14:40	3	Sample Duplicate		AY26547
MW-13	11/05/2018	15:44	3	Groundwater		AY26548
MW-15	11/06/2018	08:11	3	Groundwater		AY26549
MW-16	11/06/2018	09:15	3	Groundwater		AY26550
MW-17	11/06/2018	10:14	3	Groundwater		AY26551
MW-18	11/06/2018	11:21	3	Groundwater		AY26552
MW-1	11/06/2018	12:34	3	Groundwater		AY26553
MW-2	11/06/2018	13:35	3	Groundwater		AY26554
MW-25	11/06/2018	14:40	3	Groundwater		AY26555
MW-5	11/06/2018	15:44	3	Groundwater		AY26556
FB-2	11/06/2018	16:10	3	Field Blank		AY26557
MW-14	11/07/2018	08:16	3	Groundwater		AY26558
MW-10	11/07/2018	09:20	3	Groundwater		AY26559
MW-9	11/07/2018	10:27	3	Groundwater		AY26560
MW-8	11/07/2018	11:23	3	Groundwater		AY26561

Relinquished By	Received By	Date/Time
		11/08/2018 08:16

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
Sample Event	1180	1.0 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		see comment section



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, Corey Ladner		
	Site Representative			Requested By	Corey Ladner	
	Collector				Location	
		Jason Arledge			Greene Ash Pond	
		Anthony Goggins				

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	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	11/5/18	15:55	3	Groundwater		AY26562
MW-31	11/06/2018	08:45	3	Groundwater		AY26563
MW-33	11/06/2018	09:37	3	Groundwater		AY26564
MW-30	11/06/2018	11:18	3	Groundwater		AY26565
MW-29	11/06/2018	12:16	3	Groundwater		AY26566
MW-28	11/06/2018	13:06	3	Groundwater		AY26567
MW-27	11/06/2018	13:50	3	Groundwater		AY26568
MW-26	11/06/2018	14:40	3	Groundwater		AY26569
MW-3	11/06/2018	15:45	3	Groundwater		AY26570
MW-24	11/07/2018	08:06	3	Groundwater		AY26571
MW-23	11/07/2018	09:17	3	Groundwater		AY26572
MW-6	11/07/2018	10:05	3	Groundwater		AY26573
MW-7	11/07/2018	10:46	3	Groundwater		AY26574
MW-32DUP	11/05/2018	15:55	3	Sample Duplicate		AY26575
MW-30DUP	11/06/2018	11:18	3	Sample Duplicate		AY26576
FB-3	11/07/2018	08:18	3	Field Blank		AY26577
EB-1	11/07/2018	12:45	3	Equipment Blank		AY26578

Relinquished By	Received By	Date/Time
		11/08/2018 09:12

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	5160-26211-1-1		
Sample Event	1180		
		Cooler Temp	0.5 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	6959-37693-30-14



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 11/08/2018 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer, Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Ben Rothschild	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	Anions	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium Duplicate Collected at MW-11 and MW-17
 pH strips used: 6803-35848-20-9, 6959-37694-30-15, 6959-37693-30-14 LBM 11/08/18

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	11/5/18	12:35	4	Groundwater		AY26579
MW-21	11/05/2018	13:35	2	Groundwater		AY26580
FB-1	11/05/2018	13:55	2	Field Blank		AY26581
MW-12	11/05/2018	14:40	2	Groundwater		AY26582
MW-12 DUP	11/05/2018	14:40	2	Sample Duplicate		AY26583
MW-13	11/05/2018	15:44	2	Groundwater		AY26584
MW-15	11/06/2018	08:11	2	Groundwater		AY26585
MW-16	11/06/2018	09:15	2	Groundwater		AY26586
MW-17	11/06/2018	10:14	4	Groundwater		AY26587
MW-18	11/06/2018	11:21	2	Groundwater		AY26588
MW-1	11/06/2018	12:34	2	Groundwater		AY26589
MW-2	11/06/2018	13:35	2	Groundwater		AY26590
MW-25	11/06/2018	14:40	2	Groundwater		AY26591
MW-5	11/06/2018	15:44	2	Groundwater		AY26592
FB-2	11/06/2018	16:10	2	Field Blank		AY26593
MW-14	11/07/2018	08:16	2	Groundwater		AY26594
MW-10	11/07/2018	09:20	2	Groundwater		AY26595
MW-9	11/07/2018	10:27	2	Groundwater		AY26596
MW-8	11/07/2018	11:23	2	Groundwater		AY26597

Relinquished By	Received By	Date/Time
		11/08/2018 08:16

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
Sample Event	1180	1.0 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		see comment section



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer, Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
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 Anions	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments	<input type="text"/>
----------	----------------------

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-32	11/5/18	15:55	2	Groundwater		AY26598
MW-31	11/06/2018	08:45	2	Groundwater		AY26599
MW-33	11/06/2018	09:37	2	Groundwater		AY26600
MW-30	11/06/2018	11:18	2	Groundwater		AY26601
MW-29	11/06/2018	12:16	2	Groundwater		AY26602
MW-28	11/06/2018	13:06	2	Groundwater		AY26603
MW-27	11/06/2018	13:50	2	Groundwater		AY26604
MW-26	11/06/2018	14:40	2	Groundwater		AY26605
MW-3	11/06/2018	15:45	2	Groundwater		AY26606
MW-24	11/07/2018	08:06	2	Groundwater		AY26607
MW-23	11/07/2018	09:17	2	Groundwater		AY26608
MW-6	11/07/2018	10:05	2	Groundwater		AY26609
MW-7	11/07/2018	10:46	2	Groundwater		AY26610
MW-32DUP	11/05/2018	15:55	2	Sample Duplicate		AY26611
MW-30DUP	11/06/2018	11:18	2	Sample Duplicate		AY26612
FB-3	11/07/2018	08:18	2	Field Blank		AY26613
EB-1	11/07/2018	12:45	2	Equipment Blank		AY26614

Relinquished By	Received By	Date/Time
		11/08/2018 09:12

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	
Sample Event	1180	
	Cooler Temp	0.5 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	6959-37693-30-14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-162020-1

TestAmerica Sample Delivery Group: Greene Ash Pond 1180

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:

11/29/2018 6:30:59 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Job ID: 400-162020-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-162020-1

General Chemistry

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with analytical batch 420825 was outside control limits: (400-162020-B-9 DU). The associated Laboratory Control Sample(LCS) met acceptance criteria.

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with analytical batch 420985 was outside control limits: (400-162020-B-16 DU). The associated Laboratory Control Sample(LCS)met acceptance criteria.

Method(s) SM 4500 Cl- E: Due to the concentration of chlorides in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-162020-B-32 MS) and (400-162020-B-32 MSD)

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 421020 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY26610 MW-7 (400-162020-32), (400-162020-B-32 MS) and (400-162020-B-32 MSD). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-162020-B-1 MS) and (400-162020-B-1 MSD)

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 420648 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY26579 MW-11 (400-162020-1), AY26580 MW-21 (400-162020-2), AY26582 MW-12 (400-162020-4), AY26583 MW-12 DUP (400-162020-5), AY26584 MW-13 (400-162020-6), (400-162020-B-1 MS), (400-162020-B-1 MSD), AY26585 MW-15 (400-162020-7), AY26586 MW-16 (400-162020-8), AY26587 MW-17 (400-162020-9), AY26589 MW-1 (400-162020-11), AY26590 MW-2 (400-162020-12), AY26591 MW-25 (400-162020-13), AY26592 MW-5 (400-162020-14), AY26594 MW-14 (400-162020-16), (400-162020-B-7 MS), (400-162020-B-7 MSD), AY26595 MW-10 (400-162020-17), AY26596 MW-9 (400-162020-18), AY26607 MW-24 (400-162020-29), AY26609 MW-6 (400-162020-31), AY26610 MW-7 (400-162020-32), (400-162020-B-17 MS) and (400-162020-B-17 MSD). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-162020-B-7 MS) and (400-162020-B-7 MSD)

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 420841 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-162020-B-17 MS) and (400-162020-B-17 MSD)

Method(s) SM 4500 SO4 E: The matrix spike duplicate (MSD) recoveries for analytical batch 421014 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26579 MW-11

Lab Sample ID: 400-162020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.15		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	81		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26580 MW-21

Lab Sample ID: 400-162020-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	68		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26581 FB-1

Lab Sample ID: 400-162020-3

No Detections.

Client Sample ID: AY26582 MW-12

Lab Sample ID: 400-162020-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	74		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26583 MW-12 DUP

Lab Sample ID: 400-162020-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.21		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	74		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26584 MW-13

Lab Sample ID: 400-162020-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.15		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	81		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26585 MW-15

Lab Sample ID: 400-162020-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	160		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26586 MW-16

Lab Sample ID: 400-162020-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.24		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	97		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26587 MW-17

Lab Sample ID: 400-162020-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.45		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	220		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26588 MW-18

Lab Sample ID: 400-162020-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.17		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	11		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26589 MW-1

Lab Sample ID: 400-162020-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	880		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26590 MW-2

Lab Sample ID: 400-162020-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.070	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	280		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26591 MW-25

Lab Sample ID: 400-162020-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	48		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26592 MW-5

Lab Sample ID: 400-162020-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	93		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26593 FB-2

Lab Sample ID: 400-162020-15

No Detections.

Client Sample ID: AY26594 MW-14

Lab Sample ID: 400-162020-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	180		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26595 MW-10

Lab Sample ID: 400-162020-17

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26595 MW-10 (Continued)

Lab Sample ID: 400-162020-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.25		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	45		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26596 MW-9

Lab Sample ID: 400-162020-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	76		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26597 MW-8

Lab Sample ID: 400-162020-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	41		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	30		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26598 MW-32

Lab Sample ID: 400-162020-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26599 MW-31

Lab Sample ID: 400-162020-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26600 MW-33

Lab Sample ID: 400-162020-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	15		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26601 MW-30

Lab Sample ID: 400-162020-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.4	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY26602 MW-29

Lab Sample ID: 400-162020-24

No Detections.

Client Sample ID: AY26603 MW-28

Lab Sample ID: 400-162020-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	8.6		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26604 MW-27

Lab Sample ID: 400-162020-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY26605 MW-26

Lab Sample ID: 400-162020-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.070	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.0		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26606 MW-3

Lab Sample ID: 400-162020-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AY26607 MW-24

Lab Sample ID: 400-162020-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	91		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26608 MW-23

Lab Sample ID: 400-162020-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.4	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	14		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26609 MW-6

Lab Sample ID: 400-162020-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	97		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26610 MW-7

Lab Sample ID: 400-162020-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	58		4.0	2.8	mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.080	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	390		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26611 MW-32 DUP

Lab Sample ID: 400-162020-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY26612 MW-30 DUP

Lab Sample ID: 400-162020-34

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26612 MW-30 DUP (Continued)

Lab Sample ID: 400-162020-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY26613 FB-3

Lab Sample ID: 400-162020-35

No Detections.

Client Sample ID: AY26614 EB-1

Lab Sample ID: 400-162020-36

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Method	Method Description	Protocol	Laboratory
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-162020-1	AY26579 MW-11	Water	11/05/18 12:35	11/12/18 14:50
400-162020-2	AY26580 MW-21	Water	11/05/18 13:35	11/12/18 14:50
400-162020-3	AY26581 FB-1	Water	11/05/18 13:55	11/12/18 14:50
400-162020-4	AY26582 MW-12	Water	11/05/18 14:40	11/12/18 14:50
400-162020-5	AY26583 MW-12 DUP	Water	11/05/18 14:40	11/12/18 14:50
400-162020-6	AY26584 MW-13	Water	11/05/18 15:44	11/12/18 14:50
400-162020-7	AY26585 MW-15	Water	11/06/18 08:11	11/12/18 14:50
400-162020-8	AY26586 MW-16	Water	11/06/18 09:15	11/12/18 14:50
400-162020-9	AY26587 MW-17	Water	11/06/18 10:14	11/12/18 14:50
400-162020-10	AY26588 MW-18	Water	11/06/18 11:21	11/12/18 14:50
400-162020-11	AY26589 MW-1	Water	11/06/18 12:34	11/12/18 14:50
400-162020-12	AY26590 MW-2	Water	11/06/18 13:35	11/12/18 14:50
400-162020-13	AY26591 MW-25	Water	11/06/18 14:40	11/12/18 14:50
400-162020-14	AY26592 MW-5	Water	11/06/18 15:44	11/12/18 14:50
400-162020-15	AY26593 FB-2	Water	11/06/18 16:10	11/12/18 14:50
400-162020-16	AY26594 MW-14	Water	11/07/18 08:16	11/12/18 14:50
400-162020-17	AY26595 MW-10	Water	11/07/18 09:20	11/12/18 14:50
400-162020-18	AY26596 MW-9	Water	11/07/18 10:27	11/12/18 14:50
400-162020-19	AY26597 MW-8	Water	11/07/18 11:23	11/12/18 14:50
400-162020-20	AY26598 MW-32	Water	11/05/18 15:55	11/12/18 14:50
400-162020-21	AY26599 MW-31	Water	11/06/18 08:45	11/12/18 14:50
400-162020-22	AY26600 MW-33	Water	11/06/18 09:37	11/12/18 14:50
400-162020-23	AY26601 MW-30	Water	11/06/18 11:18	11/12/18 14:50
400-162020-24	AY26602 MW-29	Water	11/06/18 12:16	11/12/18 14:50
400-162020-25	AY26603 MW-28	Water	11/06/18 13:06	11/12/18 14:50
400-162020-26	AY26604 MW-27	Water	11/06/18 13:50	11/12/18 14:50
400-162020-27	AY26605 MW-26	Water	11/06/18 14:40	11/12/18 14:50
400-162020-28	AY26606 MW-3	Water	11/06/18 15:45	11/12/18 14:50
400-162020-29	AY26607 MW-24	Water	11/07/18 08:06	11/12/18 14:50
400-162020-30	AY26608 MW-23	Water	11/07/18 09:17	11/12/18 14:50
400-162020-31	AY26609 MW-6	Water	11/07/18 10:05	11/12/18 14:50
400-162020-32	AY26610 MW-7	Water	11/07/18 10:46	11/12/18 14:50
400-162020-33	AY26611 MW-32 DUP	Water	11/05/18 15:55	11/12/18 14:50
400-162020-34	AY26612 MW-30 DUP	Water	11/06/18 11:18	11/12/18 14:50
400-162020-35	AY26613 FB-3	Water	11/07/18 08:18	11/12/18 14:50
400-162020-36	AY26614 EB-1	Water	11/07/18 12:45	11/12/18 14:50

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26579 MW-11

Lab Sample ID: 400-162020-1

Date Collected: 11/05/18 12:35

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	1.4	mg/L			11/23/18 12:50	1
Fluoride	0.15		0.10	0.032	mg/L			11/26/18 12:37	1
Sulfate	81		25	7.0	mg/L			11/23/18 16:35	5

Client Sample ID: AY26580 MW-21

Lab Sample ID: 400-162020-2

Date Collected: 11/05/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.0	1.4	mg/L			11/23/18 12:57	1
Fluoride	0.22		0.10	0.032	mg/L			11/26/18 12:48	1
Sulfate	68		25	7.0	mg/L			11/23/18 16:40	5

Client Sample ID: AY26581 FB-1

Lab Sample ID: 400-162020-3

Date Collected: 11/05/18 13:55

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/23/18 15:00	1
Fluoride	<0.032		0.10	0.032	mg/L			11/26/18 12:52	1
Sulfate	<1.4		5.0	1.4	mg/L			11/23/18 16:15	1

Client Sample ID: AY26582 MW-12

Lab Sample ID: 400-162020-4

Date Collected: 11/05/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			11/23/18 15:00	1
Fluoride	0.20		0.10	0.032	mg/L			11/26/18 12:56	1
Sulfate	74		25	7.0	mg/L			11/23/18 16:40	5

Client Sample ID: AY26583 MW-12 DUP

Lab Sample ID: 400-162020-5

Date Collected: 11/05/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			11/23/18 15:00	1
Fluoride	0.21		0.10	0.032	mg/L			11/26/18 13:00	1
Sulfate	74		25	7.0	mg/L			11/23/18 16:40	5

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26584 MW-13

Lab Sample ID: 400-162020-6

Date Collected: 11/05/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	0.15		0.10	0.032	mg/L			11/26/18 13:04	1
Sulfate	81		25	7.0	mg/L			11/23/18 16:42	5

Client Sample ID: AY26585 MW-15

Lab Sample ID: 400-162020-7

Date Collected: 11/06/18 08:11

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	0.12		0.10	0.032	mg/L			11/26/18 13:08	1
Sulfate	160		50	14	mg/L			11/26/18 14:54	10

Client Sample ID: AY26586 MW-16

Lab Sample ID: 400-162020-8

Date Collected: 11/06/18 09:15

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	0.24		0.10	0.032	mg/L			11/26/18 13:11	1
Sulfate	97		25	7.0	mg/L			11/26/18 14:54	5

Client Sample ID: AY26587 MW-17

Lab Sample ID: 400-162020-9

Date Collected: 11/06/18 10:14

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	0.45		0.10	0.032	mg/L			11/26/18 13:23	1
Sulfate	220		100	28	mg/L			11/26/18 14:58	20

Client Sample ID: AY26588 MW-18

Lab Sample ID: 400-162020-10

Date Collected: 11/06/18 11:21

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	0.17		0.10	0.032	mg/L			11/26/18 13:31	1
Sulfate	11		5.0	1.4	mg/L			11/26/18 14:10	1

Client Sample ID: AY26589 MW-1

Lab Sample ID: 400-162020-11

Date Collected: 11/06/18 12:34

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			11/23/18 15:10	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26589 MW-1

Lab Sample ID: 400-162020-11

Date Collected: 11/06/18 12:34

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.040	J	0.10	0.032	mg/L			11/26/18 13:34	1
Sulfate	880		150	42	mg/L			11/26/18 14:58	30

Client Sample ID: AY26590 MW-2

Lab Sample ID: 400-162020-12

Date Collected: 11/06/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	0.070	J	0.10	0.032	mg/L			11/26/18 13:38	1
Sulfate	280		100	28	mg/L			11/26/18 14:58	20

Client Sample ID: AY26591 MW-25

Lab Sample ID: 400-162020-13

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	<0.032		0.10	0.032	mg/L			11/26/18 13:43	1
Sulfate	48		25	7.0	mg/L			11/26/18 14:58	5

Client Sample ID: AY26592 MW-5

Lab Sample ID: 400-162020-14

Date Collected: 11/06/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	0.22		0.10	0.032	mg/L			11/26/18 13:53	1
Sulfate	93		25	7.0	mg/L			11/26/18 15:02	5

Client Sample ID: AY26593 FB-2

Lab Sample ID: 400-162020-15

Date Collected: 11/06/18 16:10

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	<0.032		0.10	0.032	mg/L			11/26/18 13:57	1
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:10	1

Client Sample ID: AY26594 MW-14

Lab Sample ID: 400-162020-16

Date Collected: 11/07/18 08:16

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.0	1.4	mg/L			11/27/18 14:59	1
Fluoride	0.19		0.10	0.032	mg/L			11/27/18 13:18	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26594 MW-14

Lab Sample ID: 400-162020-16

Date Collected: 11/07/18 08:16

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	180		50	14	mg/L			11/26/18 15:02	10

Client Sample ID: AY26595 MW-10

Lab Sample ID: 400-162020-17

Date Collected: 11/07/18 09:20

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		2.0	1.4	mg/L			11/27/18 15:00	1
Fluoride	0.25		0.10	0.032	mg/L			11/27/18 13:30	1
Sulfate	45		25	7.0	mg/L			11/27/18 07:50	5

Client Sample ID: AY26596 MW-9

Lab Sample ID: 400-162020-18

Date Collected: 11/07/18 10:27

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	1.4	mg/L			11/27/18 15:00	1
Fluoride	0.20		0.10	0.032	mg/L			11/27/18 13:34	1
Sulfate	76		25	7.0	mg/L			11/27/18 07:50	5

Client Sample ID: AY26597 MW-8

Lab Sample ID: 400-162020-19

Date Collected: 11/07/18 11:23

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		2.0	1.4	mg/L			11/27/18 15:00	1
Fluoride	0.11		0.10	0.032	mg/L			11/27/18 13:36	1
Sulfate	30		5.0	1.4	mg/L			11/27/18 07:50	1

Client Sample ID: AY26598 MW-32

Lab Sample ID: 400-162020-20

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	<0.032		0.10	0.032	mg/L			11/26/18 13:47	1
Sulfate	2.4	J	5.0	1.4	mg/L			11/23/18 16:15	1

Client Sample ID: AY26599 MW-31

Lab Sample ID: 400-162020-21

Date Collected: 11/06/18 08:45

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 13:25	1
Sulfate	3.1	J	5.0	1.4	mg/L			11/26/18 14:10	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26600 MW-33

Lab Sample ID: 400-162020-22

Date Collected: 11/06/18 09:37

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	0.080	J	0.10	0.032	mg/L			11/27/18 13:06	1
Sulfate	15		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26601 MW-30

Lab Sample ID: 400-162020-23

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4	J	2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 13:09	1
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26602 MW-29

Lab Sample ID: 400-162020-24

Date Collected: 11/06/18 12:16

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 12:48	1
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26603 MW-28

Lab Sample ID: 400-162020-25

Date Collected: 11/06/18 13:06

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/23/18 15:10	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 13:02	1
Sulfate	8.6		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26604 MW-27

Lab Sample ID: 400-162020-26

Date Collected: 11/06/18 13:50

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9	J	2.0	1.4	mg/L			11/27/18 14:57	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 12:51	1
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26605 MW-26

Lab Sample ID: 400-162020-27

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		2.0	1.4	mg/L			11/27/18 14:57	1
Fluoride	0.070	J	0.10	0.032	mg/L			11/27/18 12:54	1
Sulfate	6.0		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26606 MW-3

Lab Sample ID: 400-162020-28

Date Collected: 11/06/18 15:45

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	1.4	mg/L			11/27/18 14:57	1
Fluoride	0.10		0.10	0.032	mg/L			11/27/18 13:28	1
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26607 MW-24

Lab Sample ID: 400-162020-29

Date Collected: 11/07/18 08:06

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		2.0	1.4	mg/L			11/27/18 15:07	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 13:39	1
Sulfate	91		25	7.0	mg/L			11/27/18 07:50	5

Client Sample ID: AY26608 MW-23

Lab Sample ID: 400-162020-30

Date Collected: 11/07/18 09:17

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4	J	2.0	1.4	mg/L			11/27/18 15:00	1
Fluoride	0.080	J	0.10	0.032	mg/L			11/27/18 13:42	1
Sulfate	14		5.0	1.4	mg/L			11/27/18 07:50	1

Client Sample ID: AY26609 MW-6

Lab Sample ID: 400-162020-31

Date Collected: 11/07/18 10:05

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		2.0	1.4	mg/L			11/27/18 15:00	1
Fluoride	0.22		0.10	0.032	mg/L			11/27/18 13:46	1
Sulfate	97		25	7.0	mg/L			11/27/18 07:50	5

Client Sample ID: AY26610 MW-7

Lab Sample ID: 400-162020-32

Date Collected: 11/07/18 10:46

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58		4.0	2.8	mg/L			11/27/18 15:47	2

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26610 MW-7

Lab Sample ID: 400-162020-32

Date Collected: 11/07/18 10:46

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.080	J	0.10	0.032	mg/L			11/27/18 15:22	1
Sulfate	390		100	28	mg/L			11/27/18 07:50	20

Client Sample ID: AY26611 MW-32 DUP

Lab Sample ID: 400-162020-33

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9	J	2.0	1.4	mg/L			11/23/18 15:03	1
Fluoride	<0.032		0.10	0.032	mg/L			11/26/18 13:49	1
Sulfate	1.9	J	5.0	1.4	mg/L			11/26/18 14:03	1

Client Sample ID: AY26612 MW-30 DUP

Lab Sample ID: 400-162020-34

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5	J	2.0	1.4	mg/L			11/27/18 14:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 12:58	1
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:16	1

Client Sample ID: AY26613 FB-3

Lab Sample ID: 400-162020-35

Date Collected: 11/07/18 08:18

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/27/18 15:06	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 15:34	1
Sulfate	<1.4		5.0	1.4	mg/L			11/27/18 07:50	1

Client Sample ID: AY26614 EB-1

Lab Sample ID: 400-162020-36

Date Collected: 11/07/18 12:45

Matrix: Water

Date Received: 11/12/18 14:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/27/18 15:06	1
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 15:30	1
Sulfate	<1.4		5.0	1.4	mg/L			11/27/18 07:50	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
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

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26579 MW-11

Date Collected: 11/05/18 12:35

Date Received: 11/12/18 14:50

Lab Sample ID: 400-162020-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420619	11/23/18 12:50	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 12:37	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420648	11/23/18 16:35	RRC	TAL PEN

Client Sample ID: AY26580 MW-21

Date Collected: 11/05/18 13:35

Date Received: 11/12/18 14:50

Lab Sample ID: 400-162020-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420619	11/23/18 12:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 12:48	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420648	11/23/18 16:40	RRC	TAL PEN

Client Sample ID: AY26581 FB-1

Date Collected: 11/05/18 13:55

Date Received: 11/12/18 14:50

Lab Sample ID: 400-162020-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 12:52	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420648	11/23/18 16:15	RRC	TAL PEN

Client Sample ID: AY26582 MW-12

Date Collected: 11/05/18 14:40

Date Received: 11/12/18 14:50

Lab Sample ID: 400-162020-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 12:56	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420648	11/23/18 16:40	RRC	TAL PEN

Client Sample ID: AY26583 MW-12 DUP

Date Collected: 11/05/18 14:40

Date Received: 11/12/18 14:50

Lab Sample ID: 400-162020-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:00	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420648	11/23/18 16:40	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26584 MW-13

Lab Sample ID: 400-162020-6

Date Collected: 11/05/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:04	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420648	11/23/18 16:42	RRC	TAL PEN

Client Sample ID: AY26585 MW-15

Lab Sample ID: 400-162020-7

Date Collected: 11/06/18 08:11

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:08	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	420841	11/26/18 14:54	RRC	TAL PEN

Client Sample ID: AY26586 MW-16

Lab Sample ID: 400-162020-8

Date Collected: 11/06/18 09:15

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:11	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420841	11/26/18 14:54	RRC	TAL PEN

Client Sample ID: AY26587 MW-17

Lab Sample ID: 400-162020-9

Date Collected: 11/06/18 10:14

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:23	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	420841	11/26/18 14:58	RRC	TAL PEN

Client Sample ID: AY26588 MW-18

Lab Sample ID: 400-162020-10

Date Collected: 11/06/18 11:21

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:31	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:10	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26589 MW-1

Lab Sample ID: 400-162020-11

Date Collected: 11/06/18 12:34

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:34	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	420841	11/26/18 14:58	RRC	TAL PEN

Client Sample ID: AY26590 MW-2

Lab Sample ID: 400-162020-12

Date Collected: 11/06/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:38	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	420841	11/26/18 14:58	RRC	TAL PEN

Client Sample ID: AY26591 MW-25

Lab Sample ID: 400-162020-13

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:43	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420841	11/26/18 14:58	RRC	TAL PEN

Client Sample ID: AY26592 MW-5

Lab Sample ID: 400-162020-14

Date Collected: 11/06/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:53	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	420841	11/26/18 15:02	RRC	TAL PEN

Client Sample ID: AY26593 FB-2

Lab Sample ID: 400-162020-15

Date Collected: 11/06/18 16:10

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:57	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:10	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26594 MW-14

Lab Sample ID: 400-162020-16

Date Collected: 11/07/18 08:16

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 14:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:18	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	420841	11/26/18 15:02	RRC	TAL PEN

Client Sample ID: AY26595 MW-10

Lab Sample ID: 400-162020-17

Date Collected: 11/07/18 09:20

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:30	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	421014	11/27/18 07:50	RRC	TAL PEN

Client Sample ID: AY26596 MW-9

Lab Sample ID: 400-162020-18

Date Collected: 11/07/18 10:27

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:34	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	421014	11/27/18 07:50	RRC	TAL PEN

Client Sample ID: AY26597 MW-8

Lab Sample ID: 400-162020-19

Date Collected: 11/07/18 11:23

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:36	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	421014	11/27/18 07:50	RRC	TAL PEN

Client Sample ID: AY26598 MW-32

Lab Sample ID: 400-162020-20

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:47	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420648	11/23/18 16:15	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26599 MW-31

Lab Sample ID: 400-162020-21

Date Collected: 11/06/18 08:45

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:25	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:10	RRC	TAL PEN

Client Sample ID: AY26600 MW-33

Lab Sample ID: 400-162020-22

Date Collected: 11/06/18 09:37

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:06	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26601 MW-30

Lab Sample ID: 400-162020-23

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:09	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26602 MW-29

Lab Sample ID: 400-162020-24

Date Collected: 11/06/18 12:16

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 12:48	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26603 MW-28

Lab Sample ID: 400-162020-25

Date Collected: 11/06/18 13:06

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:02	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26604 MW-27

Lab Sample ID: 400-162020-26

Date Collected: 11/06/18 13:50

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 14:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 12:51	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26605 MW-26

Lab Sample ID: 400-162020-27

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 14:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 12:54	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26606 MW-3

Lab Sample ID: 400-162020-28

Date Collected: 11/06/18 15:45

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 14:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:28	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26607 MW-24

Lab Sample ID: 400-162020-29

Date Collected: 11/07/18 08:06

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:07	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:39	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	421014	11/27/18 07:50	RRC	TAL PEN

Client Sample ID: AY26608 MW-23

Lab Sample ID: 400-162020-30

Date Collected: 11/07/18 09:17

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:42	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	421014	11/27/18 07:50	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26609 MW-6

Lab Sample ID: 400-162020-31

Date Collected: 11/07/18 10:05

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 13:46	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	421014	11/27/18 07:50	RRC	TAL PEN

Client Sample ID: AY26610 MW-7

Lab Sample ID: 400-162020-32

Date Collected: 11/07/18 10:46

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	421020	11/27/18 15:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	421030	11/27/18 15:22	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	421014	11/27/18 07:50	RRC	TAL PEN

Client Sample ID: AY26611 MW-32 DUP

Lab Sample ID: 400-162020-33

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	420642	11/23/18 15:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420825	11/26/18 13:49	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:03	RRC	TAL PEN

Client Sample ID: AY26612 MW-30 DUP

Lab Sample ID: 400-162020-34

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 14:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	420985	11/27/18 12:58	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	420841	11/26/18 14:16	RRC	TAL PEN

Client Sample ID: AY26613 FB-3

Lab Sample ID: 400-162020-35

Date Collected: 11/07/18 08:18

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:06	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	421030	11/27/18 15:34	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	421014	11/27/18 07:50	RRC	TAL PEN

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

Client Sample ID: AY26614 EB-1

Lab Sample ID: 400-162020-36

Date Collected: 11/07/18 12:45

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	421020	11/27/18 15:06	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	421030	11/27/18 15:30	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	421014	11/27/18 07:50	RRC	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

General Chemistry

Analysis Batch: 420619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-1	AY26579 MW-11	Total/NA	Water	SM 4500 Cl- E	
400-162020-2	AY26580 MW-21	Total/NA	Water	SM 4500 Cl- E	
MB 400-420619/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-420619/41	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-420619/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-162020-1 MS	AY26579 MW-11	Total/NA	Water	SM 4500 Cl- E	
400-162020-1 MSD	AY26579 MW-11	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 420642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-3	AY26581 FB-1	Total/NA	Water	SM 4500 Cl- E	
400-162020-4	AY26582 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-162020-5	AY26583 MW-12 DUP	Total/NA	Water	SM 4500 Cl- E	
400-162020-6	AY26584 MW-13	Total/NA	Water	SM 4500 Cl- E	
400-162020-7	AY26585 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-162020-8	AY26586 MW-16	Total/NA	Water	SM 4500 Cl- E	
400-162020-9	AY26587 MW-17	Total/NA	Water	SM 4500 Cl- E	
400-162020-10	AY26588 MW-18	Total/NA	Water	SM 4500 Cl- E	
400-162020-11	AY26589 MW-1	Total/NA	Water	SM 4500 Cl- E	
400-162020-12	AY26590 MW-2	Total/NA	Water	SM 4500 Cl- E	
400-162020-13	AY26591 MW-25	Total/NA	Water	SM 4500 Cl- E	
400-162020-14	AY26592 MW-5	Total/NA	Water	SM 4500 Cl- E	
400-162020-15	AY26593 FB-2	Total/NA	Water	SM 4500 Cl- E	
400-162020-20	AY26598 MW-32	Total/NA	Water	SM 4500 Cl- E	
400-162020-21	AY26599 MW-31	Total/NA	Water	SM 4500 Cl- E	
400-162020-22	AY26600 MW-33	Total/NA	Water	SM 4500 Cl- E	
400-162020-23	AY26601 MW-30	Total/NA	Water	SM 4500 Cl- E	
400-162020-24	AY26602 MW-29	Total/NA	Water	SM 4500 Cl- E	
400-162020-25	AY26603 MW-28	Total/NA	Water	SM 4500 Cl- E	
400-162020-33	AY26611 MW-32 DUP	Total/NA	Water	SM 4500 Cl- E	
MB 400-420642/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-420642/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-420642/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-162020-4 MS	AY26582 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-162020-4 MSD	AY26582 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-162020-13 MS	AY26591 MW-25	Total/NA	Water	SM 4500 Cl- E	
400-162020-13 MSD	AY26591 MW-25	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 420648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-1	AY26579 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-162020-2	AY26580 MW-21	Total/NA	Water	SM 4500 SO4 E	
400-162020-3	AY26581 FB-1	Total/NA	Water	SM 4500 SO4 E	
400-162020-4	AY26582 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-162020-5	AY26583 MW-12 DUP	Total/NA	Water	SM 4500 SO4 E	
400-162020-6	AY26584 MW-13	Total/NA	Water	SM 4500 SO4 E	
400-162020-20	AY26598 MW-32	Total/NA	Water	SM 4500 SO4 E	
MB 400-420648/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-420648/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-420648/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-162020-1 MS	AY26579 MW-11	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

General Chemistry (Continued)

Analysis Batch: 420648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-1 MSD	AY26579 MW-11	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 420825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-1	AY26579 MW-11	Total/NA	Water	SM 4500 F C	
400-162020-2	AY26580 MW-21	Total/NA	Water	SM 4500 F C	
400-162020-3	AY26581 FB-1	Total/NA	Water	SM 4500 F C	
400-162020-4	AY26582 MW-12	Total/NA	Water	SM 4500 F C	
400-162020-5	AY26583 MW-12 DUP	Total/NA	Water	SM 4500 F C	
400-162020-6	AY26584 MW-13	Total/NA	Water	SM 4500 F C	
400-162020-7	AY26585 MW-15	Total/NA	Water	SM 4500 F C	
400-162020-8	AY26586 MW-16	Total/NA	Water	SM 4500 F C	
400-162020-9	AY26587 MW-17	Total/NA	Water	SM 4500 F C	
400-162020-10	AY26588 MW-18	Total/NA	Water	SM 4500 F C	
400-162020-11	AY26589 MW-1	Total/NA	Water	SM 4500 F C	
400-162020-12	AY26590 MW-2	Total/NA	Water	SM 4500 F C	
400-162020-13	AY26591 MW-25	Total/NA	Water	SM 4500 F C	
400-162020-14	AY26592 MW-5	Total/NA	Water	SM 4500 F C	
400-162020-15	AY26593 FB-2	Total/NA	Water	SM 4500 F C	
400-162020-20	AY26598 MW-32	Total/NA	Water	SM 4500 F C	
400-162020-33	AY26611 MW-32 DUP	Total/NA	Water	SM 4500 F C	
MB 400-420825/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-420825/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-162020-1 MS	AY26579 MW-11	Total/NA	Water	SM 4500 F C	
400-162020-1 MSD	AY26579 MW-11	Total/NA	Water	SM 4500 F C	
400-162020-9 DU	AY26587 MW-17	Total/NA	Water	SM 4500 F C	

Analysis Batch: 420841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-7	AY26585 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-162020-8	AY26586 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-162020-9	AY26587 MW-17	Total/NA	Water	SM 4500 SO4 E	
400-162020-10	AY26588 MW-18	Total/NA	Water	SM 4500 SO4 E	
400-162020-11	AY26589 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-162020-12	AY26590 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-162020-13	AY26591 MW-25	Total/NA	Water	SM 4500 SO4 E	
400-162020-14	AY26592 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-162020-15	AY26593 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-162020-16	AY26594 MW-14	Total/NA	Water	SM 4500 SO4 E	
400-162020-21	AY26599 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-162020-22	AY26600 MW-33	Total/NA	Water	SM 4500 SO4 E	
400-162020-23	AY26601 MW-30	Total/NA	Water	SM 4500 SO4 E	
400-162020-24	AY26602 MW-29	Total/NA	Water	SM 4500 SO4 E	
400-162020-25	AY26603 MW-28	Total/NA	Water	SM 4500 SO4 E	
400-162020-26	AY26604 MW-27	Total/NA	Water	SM 4500 SO4 E	
400-162020-27	AY26605 MW-26	Total/NA	Water	SM 4500 SO4 E	
400-162020-28	AY26606 MW-3	Total/NA	Water	SM 4500 SO4 E	
400-162020-33	AY26611 MW-32 DUP	Total/NA	Water	SM 4500 SO4 E	
400-162020-34	AY26612 MW-30 DUP	Total/NA	Water	SM 4500 SO4 E	
MB 400-420841/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-420841/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
SDG: Greene Ash Pond 1180

General Chemistry (Continued)

Analysis Batch: 420841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-420841/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-162020-7 MS	AY26585 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-162020-7 MSD	AY26585 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-162020-21 MS	AY26599 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-162020-21 MSD	AY26599 MW-31	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 420985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-16	AY26594 MW-14	Total/NA	Water	SM 4500 F C	
400-162020-17	AY26595 MW-10	Total/NA	Water	SM 4500 F C	
400-162020-18	AY26596 MW-9	Total/NA	Water	SM 4500 F C	
400-162020-19	AY26597 MW-8	Total/NA	Water	SM 4500 F C	
400-162020-21	AY26599 MW-31	Total/NA	Water	SM 4500 F C	
400-162020-22	AY26600 MW-33	Total/NA	Water	SM 4500 F C	
400-162020-23	AY26601 MW-30	Total/NA	Water	SM 4500 F C	
400-162020-24	AY26602 MW-29	Total/NA	Water	SM 4500 F C	
400-162020-25	AY26603 MW-28	Total/NA	Water	SM 4500 F C	
400-162020-26	AY26604 MW-27	Total/NA	Water	SM 4500 F C	
400-162020-27	AY26605 MW-26	Total/NA	Water	SM 4500 F C	
400-162020-28	AY26606 MW-3	Total/NA	Water	SM 4500 F C	
400-162020-29	AY26607 MW-24	Total/NA	Water	SM 4500 F C	
400-162020-30	AY26608 MW-23	Total/NA	Water	SM 4500 F C	
400-162020-31	AY26609 MW-6	Total/NA	Water	SM 4500 F C	
400-162020-34	AY26612 MW-30 DUP	Total/NA	Water	SM 4500 F C	
MB 400-420985/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-420985/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-161955-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-161955-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-162020-16 DU	AY26594 MW-14	Total/NA	Water	SM 4500 F C	

Analysis Batch: 421014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-17	AY26595 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-162020-18	AY26596 MW-9	Total/NA	Water	SM 4500 SO4 E	
400-162020-19	AY26597 MW-8	Total/NA	Water	SM 4500 SO4 E	
400-162020-29	AY26607 MW-24	Total/NA	Water	SM 4500 SO4 E	
400-162020-30	AY26608 MW-23	Total/NA	Water	SM 4500 SO4 E	
400-162020-31	AY26609 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-162020-32	AY26610 MW-7	Total/NA	Water	SM 4500 SO4 E	
400-162020-35	AY26613 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-162020-36	AY26614 EB-1	Total/NA	Water	SM 4500 SO4 E	
MB 400-421014/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-421014/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-421014/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-162020-17 MS	AY26595 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-162020-17 MSD	AY26595 MW-10	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 421020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-16	AY26594 MW-14	Total/NA	Water	SM 4500 Cl- E	
400-162020-17	AY26595 MW-10	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

General Chemistry (Continued)

Analysis Batch: 421020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-18	AY26596 MW-9	Total/NA	Water	SM 4500 Cl- E	
400-162020-19	AY26597 MW-8	Total/NA	Water	SM 4500 Cl- E	
400-162020-26	AY26604 MW-27	Total/NA	Water	SM 4500 Cl- E	
400-162020-27	AY26605 MW-26	Total/NA	Water	SM 4500 Cl- E	
400-162020-28	AY26606 MW-3	Total/NA	Water	SM 4500 Cl- E	
400-162020-29	AY26607 MW-24	Total/NA	Water	SM 4500 Cl- E	
400-162020-30	AY26608 MW-23	Total/NA	Water	SM 4500 Cl- E	
400-162020-31	AY26609 MW-6	Total/NA	Water	SM 4500 Cl- E	
400-162020-32	AY26610 MW-7	Total/NA	Water	SM 4500 Cl- E	
400-162020-34	AY26612 MW-30 DUP	Total/NA	Water	SM 4500 Cl- E	
400-162020-35	AY26613 FB-3	Total/NA	Water	SM 4500 Cl- E	
400-162020-36	AY26614 EB-1	Total/NA	Water	SM 4500 Cl- E	
MB 400-421020/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-421020/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-421020/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-162020-26 MS	AY26604 MW-27	Total/NA	Water	SM 4500 Cl- E	
400-162020-26 MSD	AY26604 MW-27	Total/NA	Water	SM 4500 Cl- E	
400-162020-32 MS	AY26610 MW-7	Total/NA	Water	SM 4500 Cl- E	
400-162020-32 MSD	AY26610 MW-7	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 421030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-32	AY26610 MW-7	Total/NA	Water	SM 4500 F C	
400-162020-35	AY26613 FB-3	Total/NA	Water	SM 4500 F C	
400-162020-36	AY26614 EB-1	Total/NA	Water	SM 4500 F C	
MB 400-421030/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-421030/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-162020-32 MS	AY26610 MW-7	Total/NA	Water	SM 4500 F C	
400-162020-32 MSD	AY26610 MW-7	Total/NA	Water	SM 4500 F C	
400-162132-A-6 DU	Duplicate	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-420619/6
Matrix: Water
Analysis Batch: 420619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/23/18 12:46	1

Lab Sample ID: LCS 400-420619/41
Matrix: Water
Analysis Batch: 420619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.4		mg/L		105	90 - 110

Lab Sample ID: MRL 400-420619/3
Matrix: Water
Analysis Batch: 420619

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.58	J	mg/L		79	50 - 150

Lab Sample ID: 400-162020-1 MS
Matrix: Water
Analysis Batch: 420619

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	13		10.0	23.4		mg/L		107	73 - 120

Lab Sample ID: 400-162020-1 MSD
Matrix: Water
Analysis Batch: 420619

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13		10.0	23.2		mg/L		104	73 - 120	1	8

Lab Sample ID: MB 400-420642/6
Matrix: Water
Analysis Batch: 420642

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/23/18 15:00	1

Lab Sample ID: LCS 400-420642/7
Matrix: Water
Analysis Batch: 420642

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.4		mg/L		108	90 - 110

Lab Sample ID: MRL 400-420642/3
Matrix: Water
Analysis Batch: 420642

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.74	J	mg/L		87	50 - 150

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Lab Sample ID: 400-162020-4 MS
Matrix: Water
Analysis Batch: 420642

Client Sample ID: AY26582 MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17		10.0	27.3		mg/L		100	73 - 120

Lab Sample ID: 400-162020-4 MSD
Matrix: Water
Analysis Batch: 420642

Client Sample ID: AY26582 MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17		10.0	27.3		mg/L		100	73 - 120	0	8

Lab Sample ID: 400-162020-13 MS
Matrix: Water
Analysis Batch: 420642

Client Sample ID: AY26591 MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21		10.0	30.9		mg/L		100	73 - 120

Lab Sample ID: 400-162020-13 MSD
Matrix: Water
Analysis Batch: 420642

Client Sample ID: AY26591 MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21		10.0	30.6		mg/L		97	73 - 120	1	8

Lab Sample ID: MB 400-421020/6
Matrix: Water
Analysis Batch: 421020

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			11/27/18 14:57	1

Lab Sample ID: LCS 400-421020/7
Matrix: Water
Analysis Batch: 421020

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.8		mg/L		106	90 - 110

Lab Sample ID: MRL 400-421020/3
Matrix: Water
Analysis Batch: 421020

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.62	J	mg/L		81	50 - 150

Lab Sample ID: 400-162020-26 MS
Matrix: Water
Analysis Batch: 421020

Client Sample ID: AY26604 MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.9	J	10.0	13.5		mg/L		117	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-162020-26 MSD
Matrix: Water
Analysis Batch: 421020

Client Sample ID: AY26604 MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.9	J	10.0	13.5		mg/L		117	73 - 120	0	8

Lab Sample ID: 400-162020-32 MS
Matrix: Water
Analysis Batch: 421020

Client Sample ID: AY26610 MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	58		10.0	65.4	4	mg/L		73	73 - 120		

Lab Sample ID: 400-162020-32 MSD
Matrix: Water
Analysis Batch: 421020

Client Sample ID: AY26610 MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	58		10.0	65.1	4	mg/L		70	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-420825/3
Matrix: Water
Analysis Batch: 420825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			11/26/18 11:57	1

Lab Sample ID: LCS 400-420825/4
Matrix: Water
Analysis Batch: 420825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	4.00	3.60		mg/L		90	90 - 110		

Lab Sample ID: 400-162020-1 MS
Matrix: Water
Analysis Batch: 420825

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.15		1.00	1.02		mg/L		87	75 - 125		

Lab Sample ID: 400-162020-1 MSD
Matrix: Water
Analysis Batch: 420825

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.15		1.00	1.02		mg/L		87	75 - 125	0	4

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-162020-9 DU
Matrix: Water
Analysis Batch: 420825

Client Sample ID: AY26587 MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.45		0.430	F5	mg/L		5	4

Lab Sample ID: MB 400-420985/3
Matrix: Water
Analysis Batch: 420985

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 12:28	1

Lab Sample ID: LCS 400-420985/4
Matrix: Water
Analysis Batch: 420985

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.82		mg/L		96	90 - 110

Lab Sample ID: 400-161955-A-1 MS
Matrix: Water
Analysis Batch: 420985

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.29		1.00	1.26		mg/L		97	75 - 125

Lab Sample ID: 400-161955-A-1 MSD
Matrix: Water
Analysis Batch: 420985

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.29		1.00	1.24		mg/L		95	75 - 125	2	4

Lab Sample ID: 400-162020-16 DU
Matrix: Water
Analysis Batch: 420985

Client Sample ID: AY26594 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.19		0.100	F5	mg/L		62	4

Lab Sample ID: MB 400-421030/3
Matrix: Water
Analysis Batch: 421030

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			11/27/18 15:06	1

Lab Sample ID: LCS 400-421030/4
Matrix: Water
Analysis Batch: 421030

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.82		mg/L		96	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Lab Sample ID: 400-162020-32 MS
Matrix: Water
Analysis Batch: 421030

Client Sample ID: AY26610 MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.080	J	1.00	1.04		mg/L		96	75 - 125

Lab Sample ID: 400-162020-32 MSD
Matrix: Water
Analysis Batch: 421030

Client Sample ID: AY26610 MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.080	J	1.00	1.04		mg/L		96	75 - 125	0	4

Lab Sample ID: 400-162132-A-6 DU
Matrix: Water
Analysis Batch: 421030

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.67		0.680		mg/L		1	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-420648/6
Matrix: Water
Analysis Batch: 420648

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			11/23/18 16:03	1

Lab Sample ID: LCS 400-420648/7
Matrix: Water
Analysis Batch: 420648

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.7		mg/L		105	90 - 110

Lab Sample ID: MRL 400-420648/3
Matrix: Water
Analysis Batch: 420648

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.01		mg/L		100	50 - 150

Lab Sample ID: 400-162020-1 MS
Matrix: Water
Analysis Batch: 420648

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	81		10.0	87.2	4	mg/L		67	77 - 128

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-162020-1 MSD
Matrix: Water
Analysis Batch: 420648

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	81		10.0	87.6	4	mg/L		71	77 - 128	0	5

Lab Sample ID: MB 400-420841/6
Matrix: Water
Analysis Batch: 420841

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			11/26/18 14:03	1

Lab Sample ID: LCS 400-420841/7
Matrix: Water
Analysis Batch: 420841

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.8		mg/L		105	90 - 110

Lab Sample ID: MRL 400-420841/3
Matrix: Water
Analysis Batch: 420841

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.34	J	mg/L		87	50 - 150

Lab Sample ID: 400-162020-7 MS
Matrix: Water
Analysis Batch: 420841

Client Sample ID: AY26585 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	160		10.0	158	4	mg/L		2	77 - 128

Lab Sample ID: 400-162020-7 MSD
Matrix: Water
Analysis Batch: 420841

Client Sample ID: AY26585 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	160		10.0	159	4	mg/L		11	77 - 128	1	5

Lab Sample ID: 400-162020-21 MS
Matrix: Water
Analysis Batch: 420841

Client Sample ID: AY26599 MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	3.1	J	10.0	12.7		mg/L		96	77 - 128

Lab Sample ID: 400-162020-21 MSD
Matrix: Water
Analysis Batch: 420841

Client Sample ID: AY26599 MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	3.1	J	10.0	12.2		mg/L		91	77 - 128	4	5

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Lab Sample ID: MB 400-421014/6
Matrix: Water
Analysis Batch: 421014

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			11/27/18 07:50	1

Lab Sample ID: LCS 400-421014/7
Matrix: Water
Analysis Batch: 421014

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.1		mg/L		101	90 - 110

Lab Sample ID: MRL 400-421014/3
Matrix: Water
Analysis Batch: 421014

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.20	J	mg/L		84	50 - 150

Lab Sample ID: 400-162020-17 MS
Matrix: Water
Analysis Batch: 421014

Client Sample ID: AY26595 MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	45		10.0	54.9	4	mg/L		97	77 - 128

Lab Sample ID: 400-162020-17 MSD
Matrix: Water
Analysis Batch: 421014

Client Sample ID: AY26595 MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	45		10.0	52.3	4	mg/L		70	77 - 128	5	5

Chain of Custody Record

Client Information
 Sampler: Ben Rothachal
 Lab P#: WHMire, Cheyanna R
 Phone: Laura Minkoff
 E-Mail: cheyanna.whmire@testamericainc.com

Company:
 Alabama Power General Test Laboratory
 Address: 744 County Rd 87 GSC #8
 City: Cellars
 State, Zip: AL, 35040
 Phone: 205-664-6197 (Tel)
 Email: jbminkoff@southalco.com
 Project Name: CCR
 Site: Greene Ash Pond 1180

Carrier Tracking Note:
 COC No: 400-162020-24537.1
 Page: Page 1 of 2
 Job #:

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NH4SO4
 F - MeOH
 G - Anionizer
 H - Ascorbic Acid
 I - DI Water
 J - H2O2
 K - EDTA
 L - EDA
 Other:

Due Date Requested:
 Routine
 (AT Requested (days):

PO #:
 WQ #:
 Project #:
 40007143
 ISOWP:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Element, Ion, Anion, Cation, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Special Instructions/Note:
						Y	N	D	Y	N	D	
AY26579	11/5/18	12:35	G	Water		X	X	X	X	X	X	MW-11
AY26580	11/5/18	13:35	G	Water		X	X	X	X	X	X	MW-21
AY26581	11/5/18	13:55	G	Water		X	X	X	X	X	X	FB-1 (Field Blank)
AY26582	11/5/18	14:40	G	Water		X	X	X	X	X	X	MW-12
AY26583	11/5/18	14:40	G	Water		X	X	X	X	X	X	MW-12 DUP (Sample Duplicate)
AY26584	11/5/18	15:44	G	Water		X	X	X	X	X	X	MW-13
AY26585	11/6/18	08:11	G	Water		X	X	X	X	X	X	MW-15
AY26586	11/6/18	09:15	G	Water		X	X	X	X	X	X	MW-16
AY26587	11/6/18	10:14	G	Water		X	X	X	X	X	X	MW-17
AY26588	11/6/18	11:21	G	Water		X	X	X	X	X	X	MW-18
AY26589	11/6/18	12:34	G	Water		X	X	X	X	X	X	MW-1
AY26590	11/6/18	13:35	G	Water		X	X	X	X	X	X	MW-2
AY26591	11/6/18	14:40	G	Water		X	X	X	X	X	X	MW-25
AY26592	11/6/18	15:44	G	Water		X	X	X	X	X	X	MW-5
AY26593	11/6/18	16:10	G	Water		X	X	X	X	X	X	FB-2 (Field Blank)
AY26594	11/7/18	08:16	G	Water		X	X	X	X	X	X	MW-14
AY26595	11/7/18	09:20	G	Water		X	X	X	X	X	X	MW-10
AY26596	11/7/18	10:27	G	Water		X	X	X	X	X	X	MW-9
AY26597	11/7/18	11:23	G	Water		X	X	X	X	X	X	MW-8

Sample Disposal (A line may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Empty Kit Relinquished by: _____ Date: 11/09/2018 09:15 Company: APC

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Δ Yes No

Retained by: _____ Date/Time: 11/2/18 14:50 Company: _____

Received by: _____ Date/Time: 11/4/18 14:04 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) & Other Remarks: 19.8°C, 1.0°C, 19.8°C

Chain of Custody Record

Client Information			Lab/PII: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com		
Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State: AL 35040 Phone: 205-664-6197(Tel) Email: lbmidriff@southalabama.com Project Name: CCR Site: Greene Ash Pond 1180			Center Tracking No(s): GDC No: 400-56595-24597.1 Page: Page 2 of 2 Job #:		
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 40007143 SSOWNF			Analysis Requested		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			Total Number of containers _____ Special Instructions/Notes: _____ _____		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Inorganic, organic, SW, Spill, Contaminant, Stormwater, Lead)	Preservation Code:
2-2 AY26598	11/6/18	15:55	G	Water	Water
2-1 AY26598	11/6/18	08:45	G	Water	Water
2-2 AY26600	11/6/18	09:37	G	Water	Water
2-3 AY26601	11/6/18	11:18	G	Water	Water
2-4 AY26602	11/6/18	12:16	G	Water	Water
2-5 AY26603	11/6/18	13:06	G	Water	Water
2-6 AY26604	11/6/18	13:50	G	Water	Water
2-7 AY26605	11/6/18	14:40	G	Water	Water
2-8 AY26606	11/6/18	15:45	G	Water	Water
2-9 AY26607	11/7/18	08:06	G	Water	Water
2-0 AY26608	11/7/18	09:17	G	Water	Water
2-1 AY26609	11/7/18	10:05	G	Water	Water
2-2 AY26610	11/7/18	10:46	G	Water	Water
2-3 AY26611	11/7/18	15:55	G	Water	Water
2-4 AY26612	11/7/18	11:18	G	Water	Water
2-5 AY26613	11/7/18	08:18	G	Water	Water
2-6 AY26614	11/7/18	12:45	G	Water	Water

<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____ _____	Method of Shipment: Date/Time: 11/29/2018 08:15 Company: APC Date/Time: _____ Company: _____ Date/Time: _____ Company: _____
---	--

Empty Kit Relinquished by: Laura Midriff Relinquished by: _____ Relinquished by: _____ Relinquished by: _____	Date/Time: 11/21/18 14:50 Company: APC Date/Time: 11/14/18 09:29 Company: TA Date/Time: _____ Company: _____
--	---

Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No. _____ Cooler Temperature(s) °C and Other Remains _____

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-162020-1
SDG Number: Greene Ash Pond 1180

Login Number: 162020
List Number: 1
Creator: Brown, Nathan

List Source: 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	Not present
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	20.7°C, 19.8°C, 19.8°C IR 7 Rads Only, 1.0°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	

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-1
 SDG: Greene Ash Pond 1180

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-18 *
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA180023	12-31-18
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-162020-2

TestAmerica Sample Delivery Group: Greene Ash Pond 1180

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:

12/21/2018 6:15:19 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Job ID: 400-162020-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-162020-2

RAD

Method(s) 9320: Radium-228 Prep Batch 160-401679: The detection goal was not met for the following sample due to limited volume available and lower sample volume used (750mL). In addition, the barium carrier recovery (42.5%) is on the lower side which can also contribute to an elevated MDC : AY26610 MW-7 (400-162020-32). Analytical results are reported with the detection limit achieved.

Method(s) 904.0, 9320: Ra-228 Prep Batch 160-404664: The following samples did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interferences (see prep NCM 160-156110). The data have been reported with this narrative. AY26609 MW-6 (400-162020-31)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-400679: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: AY26599 MW-31 (400-162020-21), AY26600 MW-33 (400-162020-22), AY26601 MW-30 (400-162020-23), AY26602 MW-29 (400-162020-24), AY26603 MW-28 (400-162020-25), AY26604 MW-27 (400-162020-26), AY26605 MW-26 (400-162020-27), AY26606 MW-3 (400-162020-28), AY26607 MW-24 (400-162020-29), AY26608 MW-23 (400-162020-30), AY26609 MW-6 (400-162020-31), AY26610 MW-7 (400-162020-32), AY26611 MW-32 DUP (400-162020-33), AY26612 MW-30 DUP (400-162020-34), AY26613 FB-3 (400-162020-35) and AY26614 EB-1 (400-162020-36). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-401681: The following sample aliquots were reduced due to limited sample volume: AY26579 MW-11 (400-162020-1), AY26579 MW-11 (400-162020-1[DUJ]), AY26580 MW-21 (400-162020-2), AY26581 FB-1 (400-162020-3), AY26582 MW-12 (400-162020-4), AY26583 MW-12 DUP (400-162020-5), AY26584 MW-13 (400-162020-6), AY26585 MW-15 (400-162020-7), AY26586 MW-16 (400-162020-8), AY26587 MW-17 (400-162020-9), AY26587 MW-17 (400-162020-9[DUJ]), AY26588 MW-18 (400-162020-10), AY26589 MW-1 (400-162020-11), AY26590 MW-2 (400-162020-12), AY26591 MW-25 (400-162020-13), AY26592 MW-5 (400-162020-14), AY26593 FB-2 (400-162020-15), AY26594 MW-14 (400-162020-16), AY26595 MW-10 (400-162020-17), AY26596 MW-9 (400-162020-18), AY26597 MW-8 (400-162020-19) and AY26598 MW-32 (400-162020-20)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-401679: The yttrium carrier recovery is outside the lower control limit (40%) for the following sample: AY26609 MW-6 (400-162020-31).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-401679: Sample aliquots reduced due to limited sample volume. AY26599 MW-31 (400-162020-21), AY26600 MW-33 (400-162020-22), AY26601 MW-30 (400-162020-23), AY26602 MW-29 (400-162020-24), AY26603 MW-28 (400-162020-25), AY26604 MW-27 (400-162020-26), AY26605 MW-26 (400-162020-27), AY26606 MW-3 (400-162020-28), AY26607 MW-24 (400-162020-29), AY26608 MW-23 (400-162020-30), AY26609 MW-6 (400-162020-31), AY26610 MW-7 (400-162020-32), AY26611 MW-32 DUP (400-162020-33), AY26612 MW-30 DUP (400-162020-34), AY26613 FB-3 (400-162020-35) and AY26614 EB-1 (400-162020-36)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-404664: The following sample was prepared at a reduced aliquot due to limited sample volume due to re-analysis of the samples. AY26609 MW-6 (400-162020-31)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-400674: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: AY26599 MW-31 (400-162020-21), AY26600 MW-33 (400-162020-22), AY26601 MW-30 (400-162020-23), AY26602 MW-29 (400-162020-24), AY26603 MW-28 (400-162020-25), AY26604 MW-27 (400-162020-26), AY26605 MW-26 (400-162020-27), AY26606 MW-3 (400-162020-28), AY26607 MW-24 (400-162020-29), AY26608 MW-23 (400-162020-30), AY26609 MW-6 (400-162020-31), AY26610 MW-7 (400-162020-32), AY26611 MW-32 DUP (400-162020-33), AY26612 MW-30 DUP (400-162020-34), AY26613 FB-3 (400-162020-35) and AY26614 EB-1 (400-162020-36). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium 226 Prep Batch 160-401680: The following sample aliquots were reduced due to limited sample volume: AY26579 MW-11 (400-162020-1), AY26579 MW-11 (400-162020-1[DUJ]), AY26580 MW-21 (400-162020-2), AY26581 FB-1 (400-162020-3), AY26582 MW-12 (400-162020-4), AY26583 MW-12 DUP (400-162020-5), AY26584 MW-13 (400-162020-6), AY26585 MW-15 (400-162020-7), AY26586 MW-16 (400-162020-8), AY26587 MW-17 (400-162020-9), AY26587 MW-17 (400-162020-9[DUJ]), AY26588 MW-18 (400-162020-10), AY26589 MW-1 (400-162020-11), AY26590 MW-2 (400-162020-12), AY26591 MW-25 (400-162020-13), AY26592 MW-5 (400-162020-14), AY26593 FB-2 (400-162020-15), AY26594 MW-14 (400-162020-16), AY26595 MW-10 (400-162020-17), AY26596

Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Job ID: 400-162020-2 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

MW-9 (400-162020-18), AY26597 MW-8 (400-162020-19) and AY26598 MW-32 (400-162020-20)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-401674: Sample aliquots reduced due to limited sample volume. AY26599 MW-31 (400-162020-21), AY26600 MW-33 (400-162020-22), AY26601 MW-30 (400-162020-23), AY26602 MW-29 (400-162020-24), AY26603 MW-28 (400-162020-25), AY26604 MW-27 (400-162020-26), AY26605 MW-26 (400-162020-27), AY26606 MW-3 (400-162020-28), AY26607 MW-24 (400-162020-29), AY26608 MW-23 (400-162020-30), AY26609 MW-6 (400-162020-31), AY26610 MW-7 (400-162020-32), AY26611 MW-32 DUP (400-162020-33), AY26612 MW-30 DUP (400-162020-34), AY26613 FB-3 (400-162020-35) and AY26614 EB-1 (400-162020-36)



Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

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 = 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

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-162020-1	AY26579 MW-11	Water	11/05/18 12:35	11/12/18 14:50
400-162020-2	AY26580 MW-21	Water	11/05/18 13:35	11/12/18 14:50
400-162020-3	AY26581 FB-1	Water	11/05/18 13:55	11/12/18 14:50
400-162020-4	AY26582 MW-12	Water	11/05/18 14:40	11/12/18 14:50
400-162020-5	AY26583 MW-12 DUP	Water	11/05/18 14:40	11/12/18 14:50
400-162020-6	AY26584 MW-13	Water	11/05/18 15:44	11/12/18 14:50
400-162020-7	AY26585 MW-15	Water	11/06/18 08:11	11/12/18 14:50
400-162020-8	AY26586 MW-16	Water	11/06/18 09:15	11/12/18 14:50
400-162020-9	AY26587 MW-17	Water	11/06/18 10:14	11/12/18 14:50
400-162020-10	AY26588 MW-18	Water	11/06/18 11:21	11/12/18 14:50
400-162020-11	AY26589 MW-1	Water	11/06/18 12:34	11/12/18 14:50
400-162020-12	AY26590 MW-2	Water	11/06/18 13:35	11/12/18 14:50
400-162020-13	AY26591 MW-25	Water	11/06/18 14:40	11/12/18 14:50
400-162020-14	AY26592 MW-5	Water	11/06/18 15:44	11/12/18 14:50
400-162020-15	AY26593 FB-2	Water	11/06/18 16:10	11/12/18 14:50
400-162020-16	AY26594 MW-14	Water	11/07/18 08:16	11/12/18 14:50
400-162020-17	AY26595 MW-10	Water	11/07/18 09:20	11/12/18 14:50
400-162020-18	AY26596 MW-9	Water	11/07/18 10:27	11/12/18 14:50
400-162020-19	AY26597 MW-8	Water	11/07/18 11:23	11/12/18 14:50
400-162020-20	AY26598 MW-32	Water	11/05/18 15:55	11/12/18 14:50
400-162020-21	AY26599 MW-31	Water	11/06/18 08:45	11/12/18 14:50
400-162020-22	AY26600 MW-33	Water	11/06/18 09:37	11/12/18 14:50
400-162020-23	AY26601 MW-30	Water	11/06/18 11:18	11/12/18 14:50
400-162020-24	AY26602 MW-29	Water	11/06/18 12:16	11/12/18 14:50
400-162020-25	AY26603 MW-28	Water	11/06/18 13:06	11/12/18 14:50
400-162020-26	AY26604 MW-27	Water	11/06/18 13:50	11/12/18 14:50
400-162020-27	AY26605 MW-26	Water	11/06/18 14:40	11/12/18 14:50
400-162020-28	AY26606 MW-3	Water	11/06/18 15:45	11/12/18 14:50
400-162020-29	AY26607 MW-24	Water	11/07/18 08:06	11/12/18 14:50
400-162020-30	AY26608 MW-23	Water	11/07/18 09:17	11/12/18 14:50
400-162020-31	AY26609 MW-6	Water	11/07/18 10:05	11/12/18 14:50
400-162020-32	AY26610 MW-7	Water	11/07/18 10:46	11/12/18 14:50
400-162020-33	AY26611 MW-32 DUP	Water	11/05/18 15:55	11/12/18 14:50
400-162020-34	AY26612 MW-30 DUP	Water	11/06/18 11:18	11/12/18 14:50
400-162020-35	AY26613 FB-3	Water	11/07/18 08:18	11/12/18 14:50
400-162020-36	AY26614 EB-1	Water	11/07/18 12:45	11/12/18 14:50

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26579 MW-11

Lab Sample ID: 400-162020-1

Date Collected: 11/05/18 12:35

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179		0.113	0.114	1.00	0.147	pCi/L	11/19/18 17:44	12/11/18 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					11/19/18 17:44	12/11/18 09:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.503		0.302	0.306	1.00	0.457	pCi/L	11/19/18 18:29	12/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					11/19/18 18:29	12/06/18 12:17	1
Y Carrier	88.2		40 - 110					11/19/18 18:29	12/06/18 12:17	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	0.682		0.322	0.327	5.00	0.457	pCi/L		12/21/18 12:31	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26580 MW-21

Lab Sample ID: 400-162020-2

Date Collected: 11/05/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.102	0.103	1.00	0.149	pCi/L	11/19/18 17:44	12/11/18 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 17:44	12/11/18 09:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.512		0.309	0.313	1.00	0.469	pCi/L	11/19/18 18:29	12/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 18:29	12/06/18 12:17	1
Y Carrier	84.9		40 - 110					11/19/18 18:29	12/06/18 12:17	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	0.637		0.325	0.330	5.00	0.469	pCi/L		12/21/18 12:31	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26581 FB-1

Lab Sample ID: 400-162020-3

Date Collected: 11/05/18 13:55

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00112	U	0.0621	0.0621	1.00	0.135	pCi/L	11/19/18 17:44	12/11/18 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					11/19/18 17:44	12/11/18 09:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.240	U	0.289	0.289	1.00	0.477	pCi/L	11/19/18 18:29	12/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					11/19/18 18:29	12/06/18 12:17	1
Y Carrier	87.1		40 - 110					11/19/18 18:29	12/06/18 12:17	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	0.241	U	0.296	0.296	5.00	0.477	pCi/L		12/21/18 12:31	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26582 MW-12

Lab Sample ID: 400-162020-4

Date Collected: 11/05/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0938	U	0.0991	0.0995	1.00	0.157	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0458	U	0.243	0.243	1.00	0.448	pCi/L	11/19/18 18:29	12/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					11/19/18 18:29	12/06/18 12:17	1
Y Carrier	84.9		40 - 110					11/19/18 18:29	12/06/18 12:17	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	0.0480	U	0.262	0.263	5.00	0.448	pCi/L		12/21/18 12:31	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26583 MW-12 DUP

Lab Sample ID: 400-162020-5

Date Collected: 11/05/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0913	U	0.0901	0.0904	1.00	0.138	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.140	U	0.250	0.250	1.00	0.476	pCi/L	11/19/18 18:29	12/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 18:29	12/06/18 12:17	1
Y Carrier	86.0		40 - 110					11/19/18 18:29	12/06/18 12:17	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	-0.0489	U	0.266	0.266	5.00	0.476	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26584 MW-13

Lab Sample ID: 400-162020-6

Date Collected: 11/05/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.0956	0.0962	1.00	0.139	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U	0.320	0.321	1.00	0.519	pCi/L	11/19/18 18:29	12/06/18 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					11/19/18 18:29	12/06/18 12:17	1
Y Carrier	89.3		40 - 110					11/19/18 18:29	12/06/18 12:17	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	0.441	U	0.334	0.335	5.00	0.519	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26585 MW-15

Lab Sample ID: 400-162020-7

Date Collected: 11/06/18 08:11

Matrix: Water

Date Received: 11/12/18 14:50

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		0.103	0.104	1.00	0.116	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.203	U	0.271	0.272	1.00	0.452	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	83.4		40 - 110					11/19/18 18:29	12/06/18 12:18	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	0.391	U	0.290	0.291	5.00	0.452	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26586 MW-16

Lab Sample ID: 400-162020-8

Date Collected: 11/06/18 09:15

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.223		0.116	0.118	1.00	0.135	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438	U	0.305	0.307	1.00	0.472	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	83.7		40 - 110					11/19/18 18:29	12/06/18 12:18	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	0.661		0.326	0.329	5.00	0.472	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26587 MW-17

Lab Sample ID: 400-162020-9

Date Collected: 11/06/18 10:14

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.521		0.161	0.167	1.00	0.128	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.532		0.284	0.288	1.00	0.415	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	84.1		40 - 110					11/19/18 18:29	12/06/18 12:18	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	1.05		0.326	0.333	5.00	0.415	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26588 MW-18

Lab Sample ID: 400-162020-10

Date Collected: 11/06/18 11:21

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.345		0.154	0.157	1.00	0.182	pCi/L	11/19/18 17:44	12/11/18 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					11/19/18 17:44	12/11/18 13:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.568		0.311	0.315	1.00	0.462	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	84.5		40 - 110					11/19/18 18:29	12/06/18 12:18	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	0.913		0.347	0.352	5.00	0.462	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26589 MW-1

Lab Sample ID: 400-162020-11

Date Collected: 11/06/18 12:34

Matrix: Water

Date Received: 11/12/18 14:50

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		0.143	0.146	1.00	0.140	pCi/L	11/19/18 17:44	12/11/18 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					11/19/18 17:44	12/11/18 13:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.621		0.340	0.345	1.00	0.505	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	87.5		40 - 110					11/19/18 18:29	12/06/18 12:18	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	0.938		0.369	0.375	5.00	0.505	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26590 MW-2

Lab Sample ID: 400-162020-12

Date Collected: 11/06/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.461		0.168	0.174	1.00	0.165	pCi/L	11/19/18 17:44	12/11/18 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					11/19/18 17:44	12/11/18 13:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.342	U	0.297	0.299	1.00	0.474	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	84.5		40 - 110					11/19/18 18:29	12/06/18 12:18	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		0.341	0.346	5.00	0.474	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26591 MW-25

Lab Sample ID: 400-162020-13

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.167		0.107	0.108	1.00	0.133	pCi/L	11/19/18 17:44	12/11/18 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 17:44	12/11/18 13:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0919	U	0.269	0.270	1.00	0.500	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	84.5		40 - 110					11/19/18 18:29	12/06/18 12:18	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	0.0751	U	0.289	0.291	5.00	0.500	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26592 MW-5

Lab Sample ID: 400-162020-14

Date Collected: 11/06/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.05		0.233	0.251	1.00	0.169	pCi/L	11/19/18 17:44	12/11/18 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					11/19/18 17:44	12/11/18 13:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.671		0.322	0.328	1.00	0.469	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	86.7		40 - 110					11/19/18 18:29	12/06/18 12:18	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	1.72		0.397	0.413	5.00	0.469	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26593 FB-2

Lab Sample ID: 400-162020-15

Date Collected: 11/06/18 16:10

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0579	U	0.0825	0.0827	1.00	0.140	pCi/L	11/19/18 17:44	12/11/18 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					11/19/18 17:44	12/11/18 13:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0735	U	0.276	0.276	1.00	0.484	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	84.9		40 - 110					11/19/18 18:29	12/06/18 12:18	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	0.131	U	0.288	0.288	5.00	0.484	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26594 MW-14

Lab Sample ID: 400-162020-16

Date Collected: 11/07/18 08:16

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.415		0.151	0.155	1.00	0.141	pCi/L	11/19/18 17:44	12/11/18 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					11/19/18 17:44	12/11/18 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.474	U	0.364	0.366	1.00	0.576	pCi/L	11/19/18 18:29	12/06/18 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					11/19/18 18:29	12/06/18 12:18	1
Y Carrier	83.0		40 - 110					11/19/18 18:29	12/06/18 12:18	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		0.394	0.397	5.00	0.576	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26595 MW-10

Lab Sample ID: 400-162020-17

Date Collected: 11/07/18 09:20

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.335		0.160	0.163	1.00	0.180	pCi/L	11/19/18 17:44	12/11/18 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					11/19/18 17:44	12/11/18 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.233	U	0.263	0.264	1.00	0.432	pCi/L	11/19/18 18:29	12/06/18 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					11/19/18 18:29	12/06/18 12:11	1
Y Carrier	93.1		40 - 110					11/19/18 18:29	12/06/18 12:11	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	0.568		0.308	0.310	5.00	0.432	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26596 MW-9

Lab Sample ID: 400-162020-18

Date Collected: 11/07/18 10:27

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.629		0.186	0.195	1.00	0.160	pCi/L	11/19/18 17:44	12/11/18 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					11/19/18 17:44	12/11/18 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.191	U	0.296	0.297	1.00	0.499	pCi/L	11/19/18 18:29	12/06/18 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					11/19/18 18:29	12/06/18 12:11	1
Y Carrier	84.1		40 - 110					11/19/18 18:29	12/06/18 12:11	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	0.820		0.350	0.355	5.00	0.499	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26597 MW-8

Lab Sample ID: 400-162020-19

Date Collected: 11/07/18 11:23

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.279		0.128	0.131	1.00	0.137	pCi/L	11/19/18 17:44	12/11/18 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 17:44	12/11/18 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0615	U	0.249	0.249	1.00	0.441	pCi/L	11/19/18 18:29	12/06/18 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 18:29	12/06/18 12:11	1
Y Carrier	85.2		40 - 110					11/19/18 18:29	12/06/18 12:11	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	0.340	U	0.280	0.281	5.00	0.441	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26598 MW-32

Lab Sample ID: 400-162020-20

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137	U	0.112	0.113	1.00	0.165	pCi/L	11/19/18 17:44	12/11/18 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 17:44	12/11/18 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0426	U	0.353	0.353	1.00	0.628	pCi/L	11/19/18 18:29	12/06/18 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/19/18 18:29	12/06/18 12:19	1
Y Carrier	83.4		40 - 110					11/19/18 18:29	12/06/18 12:19	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	0.0946	U	0.370	0.371	5.00	0.628	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26599 MW-31

Lab Sample ID: 400-162020-21

Date Collected: 11/06/18 08:45

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.213	U	0.155	0.156	1.00	0.217	pCi/L	11/19/18 16:59	12/11/18 09:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					11/19/18 16:59	12/11/18 09:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.354	U	0.477	0.478	1.00	0.794	pCi/L	11/19/18 17:23	12/06/18 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					11/19/18 17:23	12/06/18 12:13	1
Y Carrier	80.4		40 - 110					11/19/18 17:23	12/06/18 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	0.566	U	0.502	0.503	5.00	0.794	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26600 MW-33

Lab Sample ID: 400-162020-22

Date Collected: 11/06/18 09:37

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.714		0.215	0.225	1.00	0.184	pCi/L	11/19/18 16:59	12/11/18 09:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					11/19/18 16:59	12/11/18 09:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.835		0.417	0.424	1.00	0.615	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	84.5		40 - 110					11/19/18 17:23	12/06/18 12:14	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	1.55		0.469	0.480	5.00	0.615	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26601 MW-30

Lab Sample ID: 400-162020-23

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286		0.161	0.163	1.00	0.198	pCi/L	11/19/18 16:59	12/11/18 09:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.7		40 - 110					11/19/18 16:59	12/11/18 09:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.642	U	0.454	0.458	1.00	0.707	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.7		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	84.5		40 - 110					11/19/18 17:23	12/06/18 12:14	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	0.928		0.482	0.486	5.00	0.707	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26602 MW-29

Lab Sample ID: 400-162020-24

Date Collected: 11/06/18 12:16

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.253		0.144	0.146	1.00	0.182	pCi/L	11/19/18 16:59	12/11/18 09:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					11/19/18 16:59	12/11/18 09:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.340	0.340	1.00	0.565	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	85.2		40 - 110					11/19/18 17:23	12/06/18 12:14	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	0.513	U	0.369	0.370	5.00	0.565	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26603 MW-28

Lab Sample ID: 400-162020-25

Date Collected: 11/06/18 13:06

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.403		0.159	0.163	1.00	0.152	pCi/L	11/19/18 16:59	12/11/18 09:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					11/19/18 16:59	12/11/18 09:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.523	U	0.373	0.376	1.00	0.584	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	83.0		40 - 110					11/19/18 17:23	12/06/18 12:14	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	0.926		0.405	0.410	5.00	0.584	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26604 MW-27

Lab Sample ID: 400-162020-26

Date Collected: 11/06/18 13:50

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.121	0.122	1.00	0.198	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.542	U	0.408	0.411	1.00	0.642	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	83.0		40 - 110					11/19/18 17:23	12/06/18 12:14	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	0.646		0.426	0.429	5.00	0.642	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26605 MW-26

Lab Sample ID: 400-162020-27

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.107	U	0.125	0.125	1.00	0.203	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.0		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.220	U	0.446	0.446	1.00	0.760	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.0		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	83.4		40 - 110					11/19/18 17:23	12/06/18 12:14	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	0.328	U	0.463	0.463	5.00	0.760	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26606 MW-3

Lab Sample ID: 400-162020-28

Date Collected: 11/06/18 15:45

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.914		0.251	0.264	1.00	0.182	pCi/L	11/19/18 16:59	12/11/18 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					11/19/18 16:59	12/11/18 13:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.357	U	0.447	0.448	1.00	0.741	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	77.4		40 - 110					11/19/18 17:23	12/06/18 12:14	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	1.27		0.513	0.520	5.00	0.741	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26607 MW-24

Lab Sample ID: 400-162020-29

Date Collected: 11/07/18 08:06

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.548		0.179	0.186	1.00	0.145	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.18		0.411	0.425	1.00	0.547	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	85.2		40 - 110					11/19/18 17:23	12/06/18 12:14	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	1.72		0.448	0.464	5.00	0.547	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26608 MW-23

Lab Sample ID: 400-162020-30

Date Collected: 11/07/18 09:17

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.238		0.147	0.149	1.00	0.190	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					11/19/18 16:59	12/11/18 09:37	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	0.439	0.440	1.00	0.743	pCi/L	11/19/18 17:23	12/06/18 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					11/19/18 17:23	12/06/18 12:14	1
Y Carrier	81.1		40 - 110					11/19/18 17:23	12/06/18 12:14	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	0.496	U	0.463	0.465	5.00	0.743	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26609 MW-6

Lab Sample ID: 400-162020-31

Date Collected: 11/07/18 10:05

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.208		0.156	0.157	1.00	0.204	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	50.7		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.18	G	0.712	0.721	1.00	1.08	pCi/L	12/07/18 14:19	12/17/18 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					12/07/18 14:19	12/17/18 09:18	1
Y Carrier	84.5		40 - 110					12/07/18 14:19	12/17/18 09:18	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	1.39		0.729	0.738	5.00	1.08	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26610 MW-7

Lab Sample ID: 400-162020-32

Date Collected: 11/07/18 10:46

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.247	U	0.200	0.201	1.00	0.285	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	42.5		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26	G	0.746	0.755	1.00	1.12	pCi/L	11/19/18 17:23	12/06/18 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	42.5		40 - 110					11/19/18 17:23	12/06/18 12:15	1
Y Carrier	81.1		40 - 110					11/19/18 17:23	12/06/18 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	1.51		0.772	0.781	5.00	1.12	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26611 MW-32 DUP

Lab Sample ID: 400-162020-33

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179	U	0.157	0.158	1.00	0.228	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.3		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.560	U	0.530	0.533	1.00	0.853	pCi/L	11/19/18 17:23	12/06/18 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.3		40 - 110					11/19/18 17:23	12/06/18 12:15	1
Y Carrier	80.7		40 - 110					11/19/18 17:23	12/06/18 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	0.739	U	0.553	0.556	5.00	0.853	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26612 MW-30 DUP

Lab Sample ID: 400-162020-34

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.223	U	0.165	0.166	1.00	0.230	pCi/L	11/19/18 16:59	12/11/18 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.0		40 - 110					11/19/18 16:59	12/11/18 09:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.481	U	0.532	0.534	1.00	0.872	pCi/L	11/19/18 17:23	12/06/18 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.0		40 - 110					11/19/18 17:23	12/06/18 12:15	1
Y Carrier	84.5		40 - 110					11/19/18 17:23	12/06/18 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	0.704	U	0.557	0.559	5.00	0.872	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26613 FB-3

Lab Sample ID: 400-162020-35

Date Collected: 11/07/18 08:18

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0868	U	0.105	0.105	1.00	0.172	pCi/L	11/19/18 16:59	12/11/18 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					11/19/18 16:59	12/11/18 09:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.175	U	0.362	0.362	1.00	0.680	pCi/L	11/19/18 17:23	12/06/18 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					11/19/18 17:23	12/06/18 12:15	1
Y Carrier	76.3		40 - 110					11/19/18 17:23	12/06/18 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	-0.0884	U	0.377	0.377	5.00	0.680	pCi/L		12/21/18 12:39	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26614 EB-1

Lab Sample ID: 400-162020-36

Date Collected: 11/07/18 12:45

Matrix: Water

Date Received: 11/12/18 14:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0401	U	0.0779	0.0780	1.00	0.196	pCi/L	11/19/18 16:59	12/11/18 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.0		40 - 110					11/19/18 16:59	12/11/18 09:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0790	U	0.352	0.352	1.00	0.661	pCi/L	11/19/18 17:23	12/06/18 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.0		40 - 110					11/19/18 17:23	12/06/18 12:15	1
Y Carrier	80.7		40 - 110					11/19/18 17:23	12/06/18 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	-0.119	U	0.361	0.361	5.00	0.661	pCi/L		12/21/18 12:39	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
G	The Sample MDC is greater than the requested RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
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

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26579 MW-11

Lab Sample ID: 400-162020-1

Date Collected: 11/05/18 12:35

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:43	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:17	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:31	ALS	TAL SL

Client Sample ID: AY26580 MW-21

Lab Sample ID: 400-162020-2

Date Collected: 11/05/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:43	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:17	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:31	ALS	TAL SL

Client Sample ID: AY26581 FB-1

Lab Sample ID: 400-162020-3

Date Collected: 11/05/18 13:55

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:43	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:17	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:31	ALS	TAL SL

Client Sample ID: AY26582 MW-12

Lab Sample ID: 400-162020-4

Date Collected: 11/05/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:17	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:31	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Client Sample ID: AY26583 MW-12 DUP

Lab Sample ID: 400-162020-5

Date Collected: 11/05/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:17	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26584 MW-13

Lab Sample ID: 400-162020-6

Date Collected: 11/05/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:17	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26585 MW-15

Lab Sample ID: 400-162020-7

Date Collected: 11/06/18 08:11

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26586 MW-16

Lab Sample ID: 400-162020-8

Date Collected: 11/06/18 09:15

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Client Sample ID: AY26587 MW-17

Lab Sample ID: 400-162020-9

Date Collected: 11/06/18 10:14

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26588 MW-18

Lab Sample ID: 400-162020-10

Date Collected: 11/06/18 11:21

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404983	12/11/18 13:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26589 MW-1

Lab Sample ID: 400-162020-11

Date Collected: 11/06/18 12:34

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:17	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26590 MW-2

Lab Sample ID: 400-162020-12

Date Collected: 11/06/18 13:35

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:17	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26591 MW-25

Lab Sample ID: 400-162020-13

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:17	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26592 MW-5

Lab Sample ID: 400-162020-14

Date Collected: 11/06/18 15:44

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:17	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26593 FB-2

Lab Sample ID: 400-162020-15

Date Collected: 11/06/18 16:10

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:17	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26594 MW-14

Lab Sample ID: 400-162020-16

Date Collected: 11/07/18 08:16

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:18	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404500	12/06/18 12:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Client Sample ID: AY26595 MW-10

Lab Sample ID: 400-162020-17

Date Collected: 11/07/18 09:20

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:18	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404254	12/06/18 12:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26596 MW-9

Lab Sample ID: 400-162020-18

Date Collected: 11/07/18 10:27

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:18	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404254	12/06/18 12:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26597 MW-8

Lab Sample ID: 400-162020-19

Date Collected: 11/07/18 11:23

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:18	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:11	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26598 MW-32

Lab Sample ID: 400-162020-20

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401680	11/19/18 17:44	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:18	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401681	11/19/18 18:29	REG	TAL SL
Total/NA	Analysis	9320		1	404255	12/06/18 12:19	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Client Sample ID: AY26599 MW-31

Lab Sample ID: 400-162020-21

Date Collected: 11/06/18 08:45

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 09:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:13	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26600 MW-33

Lab Sample ID: 400-162020-22

Date Collected: 11/06/18 09:37

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 09:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26601 MW-30

Lab Sample ID: 400-162020-23

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 09:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26602 MW-29

Lab Sample ID: 400-162020-24

Date Collected: 11/06/18 12:16

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 09:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26603 MW-28

Lab Sample ID: 400-162020-25

Date Collected: 11/06/18 13:06

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 09:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26604 MW-27

Lab Sample ID: 400-162020-26

Date Collected: 11/06/18 13:50

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26605 MW-26

Lab Sample ID: 400-162020-27

Date Collected: 11/06/18 14:40

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26606 MW-3

Lab Sample ID: 400-162020-28

Date Collected: 11/06/18 15:45

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404941	12/11/18 13:25	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
SDG: Greene Ash Pond 1180

Client Sample ID: AY26607 MW-24

Lab Sample ID: 400-162020-29

Date Collected: 11/07/18 08:06

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26608 MW-23

Lab Sample ID: 400-162020-30

Date Collected: 11/07/18 09:17

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:14	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26609 MW-6

Lab Sample ID: 400-162020-31

Date Collected: 11/07/18 10:05

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			404664	12/07/18 14:19	JLC	TAL SL
Total/NA	Analysis	9320		1	406053	12/17/18 09:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26610 MW-7

Lab Sample ID: 400-162020-32

Date Collected: 11/07/18 10:46

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:15	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Client Sample ID: AY26611 MW-32 DUP

Lab Sample ID: 400-162020-33

Date Collected: 11/05/18 15:55

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:15	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26612 MW-30 DUP

Lab Sample ID: 400-162020-34

Date Collected: 11/06/18 11:18

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:15	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26613 FB-3

Lab Sample ID: 400-162020-35

Date Collected: 11/07/18 08:18

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:38	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:15	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Client Sample ID: AY26614 EB-1

Lab Sample ID: 400-162020-36

Date Collected: 11/07/18 12:45

Matrix: Water

Date Received: 11/12/18 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			401674	11/19/18 16:59	REG	TAL SL
Total/NA	Analysis	9315		1	404943	12/11/18 09:38	CDR	TAL SL
Total/NA	Prep	PrecSep_0			401679	11/19/18 17:23	REG	TAL SL
Total/NA	Analysis	9320		1	404501	12/06/18 12:15	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	407053	12/21/18 12:39	ALS	TAL SL

Laboratory References:

TAL SL = 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

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Rad

Prep Batch: 401674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-21	AY26599 MW-31	Total/NA	Water	PrecSep-21	
400-162020-22	AY26600 MW-33	Total/NA	Water	PrecSep-21	
400-162020-23	AY26601 MW-30	Total/NA	Water	PrecSep-21	
400-162020-24	AY26602 MW-29	Total/NA	Water	PrecSep-21	
400-162020-25	AY26603 MW-28	Total/NA	Water	PrecSep-21	
400-162020-26	AY26604 MW-27	Total/NA	Water	PrecSep-21	
400-162020-27	AY26605 MW-26	Total/NA	Water	PrecSep-21	
400-162020-28	AY26606 MW-3	Total/NA	Water	PrecSep-21	
400-162020-29	AY26607 MW-24	Total/NA	Water	PrecSep-21	
400-162020-30	AY26608 MW-23	Total/NA	Water	PrecSep-21	
400-162020-31	AY26609 MW-6	Total/NA	Water	PrecSep-21	
400-162020-32	AY26610 MW-7	Total/NA	Water	PrecSep-21	
400-162020-33	AY26611 MW-32 DUP	Total/NA	Water	PrecSep-21	
400-162020-34	AY26612 MW-30 DUP	Total/NA	Water	PrecSep-21	
400-162020-35	AY26613 FB-3	Total/NA	Water	PrecSep-21	
400-162020-36	AY26614 EB-1	Total/NA	Water	PrecSep-21	
MB 160-401674/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-401674/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-401674/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 401679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-21	AY26599 MW-31	Total/NA	Water	PrecSep_0	
400-162020-22	AY26600 MW-33	Total/NA	Water	PrecSep_0	
400-162020-23	AY26601 MW-30	Total/NA	Water	PrecSep_0	
400-162020-24	AY26602 MW-29	Total/NA	Water	PrecSep_0	
400-162020-25	AY26603 MW-28	Total/NA	Water	PrecSep_0	
400-162020-26	AY26604 MW-27	Total/NA	Water	PrecSep_0	
400-162020-27	AY26605 MW-26	Total/NA	Water	PrecSep_0	
400-162020-28	AY26606 MW-3	Total/NA	Water	PrecSep_0	
400-162020-29	AY26607 MW-24	Total/NA	Water	PrecSep_0	
400-162020-30	AY26608 MW-23	Total/NA	Water	PrecSep_0	
400-162020-32	AY26610 MW-7	Total/NA	Water	PrecSep_0	
400-162020-33	AY26611 MW-32 DUP	Total/NA	Water	PrecSep_0	
400-162020-34	AY26612 MW-30 DUP	Total/NA	Water	PrecSep_0	
400-162020-35	AY26613 FB-3	Total/NA	Water	PrecSep_0	
400-162020-36	AY26614 EB-1	Total/NA	Water	PrecSep_0	
MB 160-401679/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-401679/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-401679/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 401680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-1	AY26579 MW-11	Total/NA	Water	PrecSep-21	
400-162020-2	AY26580 MW-21	Total/NA	Water	PrecSep-21	
400-162020-3	AY26581 FB-1	Total/NA	Water	PrecSep-21	
400-162020-4	AY26582 MW-12	Total/NA	Water	PrecSep-21	
400-162020-5	AY26583 MW-12 DUP	Total/NA	Water	PrecSep-21	
400-162020-6	AY26584 MW-13	Total/NA	Water	PrecSep-21	
400-162020-7	AY26585 MW-15	Total/NA	Water	PrecSep-21	
400-162020-8	AY26586 MW-16	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Rad (Continued)

Prep Batch: 401680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-9	AY26587 MW-17	Total/NA	Water	PrecSep-21	
400-162020-10	AY26588 MW-18	Total/NA	Water	PrecSep-21	
400-162020-11	AY26589 MW-1	Total/NA	Water	PrecSep-21	
400-162020-12	AY26590 MW-2	Total/NA	Water	PrecSep-21	
400-162020-13	AY26591 MW-25	Total/NA	Water	PrecSep-21	
400-162020-14	AY26592 MW-5	Total/NA	Water	PrecSep-21	
400-162020-15	AY26593 FB-2	Total/NA	Water	PrecSep-21	
400-162020-16	AY26594 MW-14	Total/NA	Water	PrecSep-21	
400-162020-17	AY26595 MW-10	Total/NA	Water	PrecSep-21	
400-162020-18	AY26596 MW-9	Total/NA	Water	PrecSep-21	
400-162020-19	AY26597 MW-8	Total/NA	Water	PrecSep-21	
400-162020-20	AY26598 MW-32	Total/NA	Water	PrecSep-21	
MB 160-401680/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-401680/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-162020-1 DU	AY26579 MW-11	Total/NA	Water	PrecSep-21	
400-162020-9 DU	AY26587 MW-17	Total/NA	Water	PrecSep-21	

Prep Batch: 401681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-1	AY26579 MW-11	Total/NA	Water	PrecSep_0	
400-162020-2	AY26580 MW-21	Total/NA	Water	PrecSep_0	
400-162020-3	AY26581 FB-1	Total/NA	Water	PrecSep_0	
400-162020-4	AY26582 MW-12	Total/NA	Water	PrecSep_0	
400-162020-5	AY26583 MW-12 DUP	Total/NA	Water	PrecSep_0	
400-162020-6	AY26584 MW-13	Total/NA	Water	PrecSep_0	
400-162020-7	AY26585 MW-15	Total/NA	Water	PrecSep_0	
400-162020-8	AY26586 MW-16	Total/NA	Water	PrecSep_0	
400-162020-9	AY26587 MW-17	Total/NA	Water	PrecSep_0	
400-162020-10	AY26588 MW-18	Total/NA	Water	PrecSep_0	
400-162020-11	AY26589 MW-1	Total/NA	Water	PrecSep_0	
400-162020-12	AY26590 MW-2	Total/NA	Water	PrecSep_0	
400-162020-13	AY26591 MW-25	Total/NA	Water	PrecSep_0	
400-162020-14	AY26592 MW-5	Total/NA	Water	PrecSep_0	
400-162020-15	AY26593 FB-2	Total/NA	Water	PrecSep_0	
400-162020-16	AY26594 MW-14	Total/NA	Water	PrecSep_0	
400-162020-17	AY26595 MW-10	Total/NA	Water	PrecSep_0	
400-162020-18	AY26596 MW-9	Total/NA	Water	PrecSep_0	
400-162020-19	AY26597 MW-8	Total/NA	Water	PrecSep_0	
400-162020-20	AY26598 MW-32	Total/NA	Water	PrecSep_0	
MB 160-401681/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-401681/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-162020-1 DU	AY26579 MW-11	Total/NA	Water	PrecSep_0	
400-162020-9 DU	AY26587 MW-17	Total/NA	Water	PrecSep_0	

Prep Batch: 404664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-162020-31	AY26609 MW-6	Total/NA	Water	PrecSep_0	
MB 160-404664/15-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-404664/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-404664/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-401674/23-A
Matrix: Water
Analysis Batch: 404943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401674

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04481	U	0.124	0.124	1.00	0.234	pCi/L	11/19/18 16:59	12/11/18 09:38	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.1		40 - 110					11/19/18 16:59	12/11/18 09:38	1

Lab Sample ID: LCS 160-401674/1-A
Matrix: Water
Analysis Batch: 404941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401674

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	15.1	14.12		1.58	1.00	0.227	pCi/L	93	68 - 137
Carrier	%Yield	LCS Qualifier	Limits						
Ba Carrier	68.7		40 - 110						

Lab Sample ID: LCSD 160-401674/2-A
Matrix: Water
Analysis Batch: 404941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 401674

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	15.1	13.78		1.51	1.00	0.179	pCi/L	91	68 - 137	0.11	1
Carrier	%Yield	LCSD Qualifier	Limits								
Ba Carrier	79.6		40 - 110								

Lab Sample ID: MB 160-401680/24-A
Matrix: Water
Analysis Batch: 404941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401680

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05926	U	0.0879	0.0881	1.00	0.151	pCi/L	11/19/18 17:44	12/11/18 13:18	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					11/19/18 17:44	12/11/18 13:18	1

Lab Sample ID: LCS 160-401680/1-A
Matrix: Water
Analysis Batch: 404943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401680

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	15.1	12.54		1.34	1.00	0.134	pCi/L	83	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-401680/1-A
Matrix: Water
Analysis Batch: 404943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401680

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	101		40 - 110

Lab Sample ID: 400-162020-1 DU
Matrix: Water
Analysis Batch: 404943

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA
Prep Batch: 401680

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.179		0.1475		0.0959	1.00	0.119	pCi/L	0.15	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	108		40 - 110

Lab Sample ID: 400-162020-9 DU
Matrix: Water
Analysis Batch: 404983

Client Sample ID: AY26587 MW-17
Prep Type: Total/NA
Prep Batch: 401680

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.521		0.6406		0.189	1.00	0.130	pCi/L	0.34	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	103		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-401679/23-A
Matrix: Water
Analysis Batch: 404501

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401679

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.009345	U	0.387	0.387	1.00	0.708	pCi/L	11/19/18 17:23	12/06/18 12:15	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	58.1		40 - 110	11/19/18 17:23	12/06/18 12:15	1
Y Carrier	86.4		40 - 110	11/19/18 17:23	12/06/18 12:15	1

Lab Sample ID: LCS 160-401679/1-A
Matrix: Water
Analysis Batch: 404501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401679

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	12.2	14.85		1.80	1.00	0.753	pCi/L	122	56 - 140

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-401679/1-A
Matrix: Water
Analysis Batch: 404501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401679

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	68.7		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-401679/2-A
Matrix: Water
Analysis Batch: 404501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 401679

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	12.2	13.28		1.61	1.00	0.662	pCi/L	109	56 - 140	0.46	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	79.6		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: MB 160-401681/24-A
Matrix: Water
Analysis Batch: 404255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401681

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1439	U	0.341	0.341	1.00	0.584	pCi/L	11/19/18 18:29	12/06/18 12:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110	11/19/18 18:29	12/06/18 12:19	1
Y Carrier	83.4		40 - 110	11/19/18 18:29	12/06/18 12:19	1

Lab Sample ID: LCS 160-401681/1-A
Matrix: Water
Analysis Batch: 404500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401681

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	12.2	11.93		1.39	1.00	0.474	pCi/L	98	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 400-162020-1 DU
Matrix: Water
Analysis Batch: 404500

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA
Prep Batch: 401681

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.503		0.3197	U	0.291	1.00	0.465	pCi/L	0.31	1

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-162020-1 DU
Matrix: Water
Analysis Batch: 404500

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA
Prep Batch: 401681

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	108		40 - 110
Y Carrier	84.5		40 - 110

Lab Sample ID: 400-162020-9 DU
Matrix: Water
Analysis Batch: 404500

Client Sample ID: AY26587 MW-17
Prep Type: Total/NA
Prep Batch: 401681

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.532		1.043		0.379	1.00	0.500	pCi/L	0.77	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	103		40 - 110
Y Carrier	83.7		40 - 110

Lab Sample ID: MB 160-404664/15-A
Matrix: Water
Analysis Batch: 406053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 404664

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1046	U	0.249	0.250	1.00	0.430	pCi/L	12/07/18 14:19	12/17/18 09:18	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110	12/07/18 14:19	12/17/18 09:18	1
Y Carrier	76.6		40 - 110	12/07/18 14:19	12/17/18 09:18	1

Lab Sample ID: LCS 160-404664/1-A
Matrix: Water
Analysis Batch: 406074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404664

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.12	9.128		1.08	1.00	0.414	pCi/L	100	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.1		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: LCSD 160-404664/2-A
Matrix: Water
Analysis Batch: 406074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404664

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.12	9.096		1.08	1.00	0.413	pCi/L	100	56 - 140	0.01	1

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-404664/2-A
Matrix: Water
Analysis Batch: 406074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404664

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	91.7		40 - 110
Y Carrier	84.1		40 - 110

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-162020-1 DU
Matrix: Water
Analysis Batch: 407053

Client Sample ID: AY26579 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Combined Radium 226 + 228	0.682		0.4672		0.306	5.00	0.465	pCi/L	0.34	

Lab Sample ID: 400-162020-9 DU
Matrix: Water
Analysis Batch: 407053

Client Sample ID: AY26587 MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Combined Radium 226 + 228	1.05		1.684		0.424	5.00	0.500	pCi/L	0.83	

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax: (850) 476-2871

Chain of Custody Record



Client Information
 Sampler: Ben Rothachal
 Lab P#: WH1919
 Client Contact: Laura Minkoff
 E-Mail: cheyanna.whitmore@testamericainc.com
 Company: Alabama Power General Test Laboratory
 Address: 7444 County Rd 87 GSC #8
 City: Cellars
 State, Zip: AL, 35040
 Phone: 205-664-6197 (Tel)
 Email: jbrinkoff@southalco.com
 Project Name: CCR
 Site: Greene Ash Pond 1180

Due Date Requested: Routine
TAJ Requested (days):
 PO #: 40007143
 WQ #: 1919
 Project #: 40007143
 SSOWP:

Carrier Tracking Note:
 400-162020 COC

Analyses Requested
 Perform MS/MSD (Yes or No) **Field Filtered Sample (Yes or No)**
 9M 4500 F.C. 9M 4500 C.E. 9M 4500 S.O.₄ E.
 9319, R#229, 9320, R#229, R#229, R#229, R#229, G.P.C.

Special Instructions/Note:
 Total Number of Containers: 4 MW-11
 2 MW-21
 2 FB-1 (Field Blank)
 2 MW-12
 2 MW-12 DUP (Sample Duplicate)
 2 MW-13
 2 MW-15
 2 MW-16
 2 MW-17
 2 MW-18
 2 MW-1
 2 MW-2
 2 MW-25
 2 MW-5
 2 FB-2 (Field Blank)
 2 MW-14
 2 MW-10
 2 MW-9
 2 MW-8

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Element, Residue, Compound, etc.)	Preservation Code	Field Filtered	Perform MS/MSD	9M 4500 F.C.	9M 4500 C.E.	9M 4500 S.O. ₄ E.	Special Instructions/Note
AY26579	11/5/18	12:35	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-11
AY26580	11/5/18	13:35	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-21
AY26581	11/5/18	13:55	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FB-1 (Field Blank)
AY26582	11/5/18	14:40	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-12
AY26583	11/5/18	14:40	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-12 DUP (Sample Duplicate)
AY26584	11/5/18	15:44	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-13
AY26585	11/6/18	08:11	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-15
AY26586	11/6/18	09:15	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-16
AY26587	11/6/18	10:14	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-17
AY26588	11/6/18	11:21	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-18
AY26589	11/6/18	12:34	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-1
AY26590	11/6/18	13:35	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-2
AY26591	11/6/18	14:40	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-25
AY26592	11/6/18	15:44	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-5
AY26593	11/6/18	16:10	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FB-2 (Field Blank)
AY26594	11/7/18	08:16	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-14
AY26595	11/7/18	09:20	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-10
AY26596	11/7/18	10:27	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-9
AY26597	11/7/18	11:23	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-8

Special Instructions/OC Requirements:
 Non-Hazardous Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: Relinquished by: Laura Meish
 Date/Time: 11/09/2018 09:15
 Relinquished by: Relinquished by: Company: APC
 Date/Time: Relinquished by: Company: Company:
 Relinquished by: Relinquished by: Company: Company:
 Custody Seal Intact: Custody Seal No.:
 Δ Yes Δ No
 Date: 11/21/18 14:50
 Date/Time: 11/14/18 14:04
 Date/Time: 11/14/18 14:04
 Date/Time: 11/14/18 14:04
 Cooler Temperature(s) °C and Other Remarks: 1.0°C DR-8

Chain of Custody Record

Client Information	Client Contact Laura Midkiff	Company Alabama Power General Test Laboratory	Address: 744 County Rd 87 GSC #8 Calera State, Zip AL, 35040 Phone: 205-664-6197(Tel) Email: lmidkiff@southalco.com Project Name: CCR Site: Greene Ash Pond 1180	Lab P/N Whitmore, Cheyenne R	Center Tracking No(s):	GDC No: 400-56535-24537.1
Analyses Requested	0315, Pa226, 9320, R4228, R4228, R4228, R4228, R4228, GPPC 5M 4500 CLE 5M 4500 F.C 5M 4500 SC4.E 5M 4500 SC4.E					
Due Date Requested:	TAT Requested (Days):					
PO #:	PO #:					
WO #:	WO #:					
Project #:	Project #: 40007143					
Site:	Site: SSOWNF					
Sample Identification	Sample Date	Sample Time	Sample Type (G-comp, G-grab)	Matrix (Inorganic, Organic, Metals, Spills, Corrosive, Acid)	Preservation Code:	Special Instructions/Notes:
2-1 AY26598	11/5/18	15:55	G	Water	W	MMW-32
2-1 AY26598	11/6/18	08:45	G	Water	W	MMW-31
2-2 AY26600	11/6/18	09:37	G	Water	W	MMW-33
2-3 AY26601	11/6/18	11:18	G	Water	W	MMW-30
2-4 AY26602	11/6/18	12:16	G	Water	W	MMW-29
2-5 AY26603	11/6/18	13:06	G	Water	W	MMW-28
2-6 AY26604	11/6/18	13:50	G	Water	W	MMW-27
2-7 AY26605	11/6/18	14:40	G	Water	W	MMW-26
2-8 AY26606	11/6/18	15:45	G	Water	W	MMW-25
2-9 AY26607	11/7/18	08:06	G	Water	W	MMW-24
2-10 AY26608	11/7/18	09:17	G	Water	W	MMW-23
2-11 AY26609	11/7/18	10:05	G	Water	W	MMW-22
2-12 AY26610	11/7/18	10:46	G	Water	W	MMW-21
2-13 AY26611	11/5/18	15:55	G	Water	W	MMW-20 (Sample Duplicate)
2-14 AY26612	11/6/18	11:18	G	Water	W	MMW-20 (Sample Duplicate)
2-15 AY26613	11/7/18	08:18	G	Water	W	FB-3 (Field Blank)
2-16 AY26614	11/7/18	12:45	G	Water	W	EB-1 (Equipment Blank)
Total Number of Containers: _____ Special Instructions/Notes: _____						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements: _____						
Method of Shipment: _____						
Date/Time: _____ Date/Time: _____ Date/Time: _____ Received by: _____ Received by: _____ Received by: _____ Company: APC Company: Company: Company:						
Date/Time: 11/20/2018 08:15 Date/Time: 11/21/18 14:50 Date/Time: 11/14/18 09:29 Company: APC Company: Company: Company:						
Empty Kit Relinquished by: _____ Relinquished by: Laura Midkiff Relinquished by: _____ Relinquished by: _____ Custody Seals Intact: Custody Seal No. _____ Δ Yes Δ No						

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-162020-2
SDG Number: Greene Ash Pond 1180

Login Number: 162020
List Number: 1
Creator: Brown, Nathan

List Source: 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	Not present
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	20.7°C, 19.8°C, 19.8°C IR 7 Rads Only, 1.0°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: 400-162020-2
SDG Number: Greene Ash Pond 1180

Login Number: 162020
List Number: 2
Creator: McKinney, Gerrod E

List Source: TestAmerica St. Louis
List Creation: 11/16/18 02:14 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.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
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?	N/A	
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.	N/A	
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: 400-162020-2
SDG Number: Greene Ash Pond 1180

Login Number: 162020
List Number: 3
Creator: McKinney, Gerrod E

List Source: TestAmerica St. Louis
List Creation: 11/16/18 02:15 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.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
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?	N/A	
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.	N/A	
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

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	12-31-18
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-19

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD ELAP		L2305	04-06-19
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-19
Illinois	NELAP	5	200023	11-30-18 *
Iowa	State Program	7	373	12-01-18 *
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	90125	12-31-18 *
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA180017	12-31-18 *
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-162020-2
 SDG: Greene Ash Pond 1180

Laboratory: TestAmerica St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19
New York	NELAP	2	11616	03-31-19
North Dakota	State Program	8	R207	06-30-19
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-19 *
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-12	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-1	2/27/2018 9:33	1467	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 9:33	16.74	ft	Depth to Water Detail
GC-AP-MW-1	2/27/2018 9:33	1.03	mg/L	DO
GC-AP-MW-1	2/27/2018 9:33	-34.9	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 9:33	5.99	pH	pH
GC-AP-MW-1	2/27/2018 9:33	19.46	C	Temperature
GC-AP-MW-1	2/27/2018 9:33	11.26	NTU	Turbidity
GC-AP-MW-1	2/27/2018 9:38	1519.8	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 9:38	16.74	ft	Depth to Water Detail
GC-AP-MW-1	2/27/2018 9:38	0.88	mg/L	DO
GC-AP-MW-1	2/27/2018 9:38	-23	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 9:38	5.92	pH	pH
GC-AP-MW-1	2/27/2018 9:38	19.57	C	Temperature
GC-AP-MW-1	2/27/2018 9:38	6.85	NTU	Turbidity
GC-AP-MW-1	2/27/2018 9:43	1516.2	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 9:43	16.73	ft	Depth to Water Detail
GC-AP-MW-1	2/27/2018 9:43	0.78	mg/L	DO
GC-AP-MW-1	2/27/2018 9:43	-21.7	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 9:43	5.91	pH	pH
GC-AP-MW-1	2/27/2018 9:43	19.68	C	Temperature
GC-AP-MW-1	2/27/2018 9:43	4.29	NTU	Turbidity
GC-AP-MW-1	2/27/2018 9:48	1493.6	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 9:48	16.73	ft	Depth to Water Detail
GC-AP-MW-1	2/27/2018 9:48	0.73	mg/L	DO
GC-AP-MW-1	2/27/2018 9:48	-23.3	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 9:48	5.9	pH	pH
GC-AP-MW-1	2/27/2018 9:48	19.5	C	Temperature
GC-AP-MW-1	2/27/2018 9:48	3.46	NTU	Turbidity
GC-AP-MW-1	2/27/2018 9:53	1562	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 9:53	16.73	ft	Depth to Water Detail
GC-AP-MW-1	2/27/2018 9:53	0.69	mg/L	DO
GC-AP-MW-1	2/27/2018 9:53	-18.3	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 9:53	5.92	pH	pH
GC-AP-MW-1	2/27/2018 9:53	19.61	C	Temperature
GC-AP-MW-1	2/27/2018 9:53	3.88	NTU	Turbidity
GC-AP-MW-1	2/27/2018 9:58	1589	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 9:58	16.73	ft	Depth to Water Detail
GC-AP-MW-1	2/27/2018 9:58	0.66	mg/L	DO
GC-AP-MW-1	2/27/2018 9:58	-15.5	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 9:58	5.92	pH	pH
GC-AP-MW-1	2/27/2018 9:58	19.9	C	Temperature
GC-AP-MW-1	2/27/2018 9:58	2.96	NTU	Turbidity
GC-AP-MW-1	2/27/2018 10:03	1555.3	uS/cm	Conductivity
GC-AP-MW-1	2/27/2018 10:03	16.73	ft	Depth to Water Detail

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-1	2/27/2018 10:03	0.65	mg/L	DO
GC-AP-MW-1	2/27/2018 10:03	-16.2	mv	Oxidation Reduction Potention
GC-AP-MW-1	2/27/2018 10:03	5.92	pH	pH
GC-AP-MW-1	2/27/2018 10:03	19.84	C	Temperature
GC-AP-MW-1	2/27/2018 10:03	2.36	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-2	2/27/2018 10:49	600.4	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 10:49	7.19	ft	Depth to Water Detail
GC-AP-MW-2	2/27/2018 10:49	0.67	mg/L	DO
GC-AP-MW-2	2/27/2018 10:49	-21.1	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 10:49	6.12	pH	pH
GC-AP-MW-2	2/27/2018 10:49	20.1	C	Temperature
GC-AP-MW-2	2/27/2018 10:49	3.23	NTU	Turbidity
GC-AP-MW-2	2/27/2018 10:54	622.4	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 10:54	7.19	ft	Depth to Water Detail
GC-AP-MW-2	2/27/2018 10:54	0.6	mg/L	DO
GC-AP-MW-2	2/27/2018 10:54	-24.7	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 10:54	6.1	pH	pH
GC-AP-MW-2	2/27/2018 10:54	20	C	Temperature
GC-AP-MW-2	2/27/2018 10:54	2.37	NTU	Turbidity
GC-AP-MW-2	2/27/2018 10:59	639.8	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 10:59	7.2	ft	Depth to Water Detail
GC-AP-MW-2	2/27/2018 10:59	0.56	mg/L	DO
GC-AP-MW-2	2/27/2018 10:59	-26	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 10:59	6.09	pH	pH
GC-AP-MW-2	2/27/2018 10:59	19.81	C	Temperature
GC-AP-MW-2	2/27/2018 10:59	1.9	NTU	Turbidity
GC-AP-MW-2	2/27/2018 11:04	619.2	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 11:04	7.21	ft	Depth to Water Detail
GC-AP-MW-2	2/27/2018 11:04	0.52	mg/L	DO
GC-AP-MW-2	2/27/2018 11:04	-22.7	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 11:04	6.1	pH	pH
GC-AP-MW-2	2/27/2018 11:04	20.15	C	Temperature
GC-AP-MW-2	2/27/2018 11:04	2.63	NTU	Turbidity
GC-AP-MW-2	2/27/2018 11:09	630.4	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 11:09	7.22	ft	Depth to Water Detail
GC-AP-MW-2	2/27/2018 11:09	0.5	mg/L	DO
GC-AP-MW-2	2/27/2018 11:09	-24	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 11:09	6.09	pH	pH
GC-AP-MW-2	2/27/2018 11:09	20.24	C	Temperature
GC-AP-MW-2	2/27/2018 11:09	3.78	NTU	Turbidity
GC-AP-MW-2	2/27/2018 11:14	624.8	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 11:14	7.24	ft	Depth to Water Detail
GC-AP-MW-2	2/27/2018 11:14	0.49	mg/L	DO
GC-AP-MW-2	2/27/2018 11:14	-21.1	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 11:14	6.09	pH	pH
GC-AP-MW-2	2/27/2018 11:14	20.3	C	Temperature
GC-AP-MW-2	2/27/2018 11:14	4.1	NTU	Turbidity
GC-AP-MW-2	2/27/2018 11:19	642.6	uS/cm	Conductivity
GC-AP-MW-2	2/27/2018 11:19	7.24	ft	Depth to Water Detail

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-2	2/27/2018 11:19	0.48	mg/L	DO
GC-AP-MW-2	2/27/2018 11:19	-26	mv	Oxidation Reduction Potention
GC-AP-MW-2	2/27/2018 11:19	6.09	pH	pH
GC-AP-MW-2	2/27/2018 11:19	20.17	C	Temperature
GC-AP-MW-2	2/27/2018 11:19	3.57	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-3	2/27/2018 11:59	635.9	uS/cm	Conductivity
GC-AP-MW-3	2/27/2018 11:59	7.45	ft	Depth to Water Detail
GC-AP-MW-3	2/27/2018 11:59	1.39	mg/L	DO
GC-AP-MW-3	2/27/2018 11:59	-55.6	mv	Oxidation Reduction Potention
GC-AP-MW-3	2/27/2018 11:59	6.41	pH	pH
GC-AP-MW-3	2/27/2018 11:59	20.54	C	Temperature
GC-AP-MW-3	2/27/2018 11:59	1.88	NTU	Turbidity
GC-AP-MW-3	2/27/2018 12:04	642.1	uS/cm	Conductivity
GC-AP-MW-3	2/27/2018 12:04	7.5	ft	Depth to Water Detail
GC-AP-MW-3	2/27/2018 12:04	1.02	mg/L	DO
GC-AP-MW-3	2/27/2018 12:04	-53	mv	Oxidation Reduction Potention
GC-AP-MW-3	2/27/2018 12:04	6.41	pH	pH
GC-AP-MW-3	2/27/2018 12:04	20.29	C	Temperature
GC-AP-MW-3	2/27/2018 12:04	0.89	NTU	Turbidity
GC-AP-MW-3	2/27/2018 12:09	642.8	uS/cm	Conductivity
GC-AP-MW-3	2/27/2018 12:09	7.55	ft	Depth to Water Detail
GC-AP-MW-3	2/27/2018 12:09	1.05	mg/L	DO
GC-AP-MW-3	2/27/2018 12:09	-51.6	mv	Oxidation Reduction Potention
GC-AP-MW-3	2/27/2018 12:09	6.41	pH	pH
GC-AP-MW-3	2/27/2018 12:09	20.25	C	Temperature
GC-AP-MW-3	2/27/2018 12:09	0	NTU	Turbidity
GC-AP-MW-3	2/27/2018 12:14	633.1	uS/cm	Conductivity
GC-AP-MW-3	2/27/2018 12:14	7.58	ft	Depth to Water Detail
GC-AP-MW-3	2/27/2018 12:14	0.87	mg/L	DO
GC-AP-MW-3	2/27/2018 12:14	-50.6	mv	Oxidation Reduction Potention
GC-AP-MW-3	2/27/2018 12:14	6.4	pH	pH
GC-AP-MW-3	2/27/2018 12:14	20.26	C	Temperature
GC-AP-MW-3	2/27/2018 12:14	0.71	NTU	Turbidity
GC-AP-MW-3	2/27/2018 12:19	635.6	uS/cm	Conductivity
GC-AP-MW-3	2/27/2018 12:19	7.59	ft	Depth to Water Detail
GC-AP-MW-3	2/27/2018 12:19	0.97	mg/L	DO
GC-AP-MW-3	2/27/2018 12:19	-49.4	mv	Oxidation Reduction Potention
GC-AP-MW-3	2/27/2018 12:19	6.4	pH	pH
GC-AP-MW-3	2/27/2018 12:19	19.99	C	Temperature
GC-AP-MW-3	2/27/2018 12:19	0.66	NTU	Turbidity
GC-AP-MW-3	2/27/2018 12:24	644.4	uS/cm	Conductivity
GC-AP-MW-3	2/27/2018 12:24	7.6	ft	Depth to Water Detail
GC-AP-MW-3	2/27/2018 12:24	0.96	mg/L	DO
GC-AP-MW-3	2/27/2018 12:24	-49.3	mv	Oxidation Reduction Potention
GC-AP-MW-3	2/27/2018 12:24	6.39	pH	pH
GC-AP-MW-3	2/27/2018 12:24	20.04	C	Temperature
GC-AP-MW-3	2/27/2018 12:24	0.63	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-5	2/27/2018 9:07	618.9	uS/cm	Conductivity
GC-AP-MW-5	2/27/2018 9:07	7.92	ft	Depth to Water Detail
GC-AP-MW-5	2/27/2018 9:07	1.35	mg/L	DO
GC-AP-MW-5	2/27/2018 9:07	-114.6	mv	Oxidation Reduction Potention
GC-AP-MW-5	2/27/2018 9:07	6.71	pH	pH
GC-AP-MW-5	2/27/2018 9:07	20.23	C	Temperature
GC-AP-MW-5	2/27/2018 9:07	1.49	NTU	Turbidity
GC-AP-MW-5	2/27/2018 9:12	615.8	uS/cm	Conductivity
GC-AP-MW-5	2/27/2018 9:12	7.92	ft	Depth to Water Detail
GC-AP-MW-5	2/27/2018 9:12	0.88	mg/L	DO
GC-AP-MW-5	2/27/2018 9:12	-111.2	mv	Oxidation Reduction Potention
GC-AP-MW-5	2/27/2018 9:12	6.72	pH	pH
GC-AP-MW-5	2/27/2018 9:12	20.39	C	Temperature
GC-AP-MW-5	2/27/2018 9:12	0.98	NTU	Turbidity
GC-AP-MW-5	2/27/2018 9:17	626.4	uS/cm	Conductivity
GC-AP-MW-5	2/27/2018 9:17	7.92	ft	Depth to Water Detail
GC-AP-MW-5	2/27/2018 9:17	0.66	mg/L	DO
GC-AP-MW-5	2/27/2018 9:17	-108.5	mv	Oxidation Reduction Potention
GC-AP-MW-5	2/27/2018 9:17	6.73	pH	pH
GC-AP-MW-5	2/27/2018 9:17	20.46	C	Temperature
GC-AP-MW-5	2/27/2018 9:17	0.55	NTU	Turbidity
GC-AP-MW-5	2/27/2018 9:22	616.1	uS/cm	Conductivity
GC-AP-MW-5	2/27/2018 9:22	7.92	ft	Depth to Water Detail
GC-AP-MW-5	2/27/2018 9:22	0.55	mg/L	DO
GC-AP-MW-5	2/27/2018 9:22	-106	mv	Oxidation Reduction Potention
GC-AP-MW-5	2/27/2018 9:22	6.73	pH	pH
GC-AP-MW-5	2/27/2018 9:22	20.48	C	Temperature
GC-AP-MW-5	2/27/2018 9:22	0.52	NTU	Turbidity
GC-AP-MW-5	2/27/2018 9:27	624.5	uS/cm	Conductivity
GC-AP-MW-5	2/27/2018 9:27	7.92	ft	Depth to Water Detail
GC-AP-MW-5	2/27/2018 9:27	0.54	mg/L	DO
GC-AP-MW-5	2/27/2018 9:27	-103.8	mv	Oxidation Reduction Potention
GC-AP-MW-5	2/27/2018 9:27	6.73	pH	pH
GC-AP-MW-5	2/27/2018 9:27	20.48	C	Temperature
GC-AP-MW-5	2/27/2018 9:27	0.59	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-6	2/27/2018 10:04	843.5	uS/cm	Conductivity
GC-AP-MW-6	2/27/2018 10:04	4.02	ft	Depth to Water Detail
GC-AP-MW-6	2/27/2018 10:04	0.48	mg/L	DO
GC-AP-MW-6	2/27/2018 10:04	81.4	mv	Oxidation Reduction Potention
GC-AP-MW-6	2/27/2018 10:04	6.56	pH	pH
GC-AP-MW-6	2/27/2018 10:04	19.55	C	Temperature
GC-AP-MW-6	2/27/2018 10:04	0.21	NTU	Turbidity
GC-AP-MW-6	2/27/2018 10:09	853.2	uS/cm	Conductivity
GC-AP-MW-6	2/27/2018 10:09	4.03	ft	Depth to Water Detail
GC-AP-MW-6	2/27/2018 10:09	0.4	mg/L	DO
GC-AP-MW-6	2/27/2018 10:09	78.5	mv	Oxidation Reduction Potention
GC-AP-MW-6	2/27/2018 10:09	6.55	pH	pH
GC-AP-MW-6	2/27/2018 10:09	19.9	C	Temperature
GC-AP-MW-6	2/27/2018 10:09	0.21	NTU	Turbidity
GC-AP-MW-6	2/27/2018 10:14	909.6	uS/cm	Conductivity
GC-AP-MW-6	2/27/2018 10:14	4.03	ft	Depth to Water Detail
GC-AP-MW-6	2/27/2018 10:14	0.35	mg/L	DO
GC-AP-MW-6	2/27/2018 10:14	76	mv	Oxidation Reduction Potention
GC-AP-MW-6	2/27/2018 10:14	6.51	pH	pH
GC-AP-MW-6	2/27/2018 10:14	20.17	C	Temperature
GC-AP-MW-6	2/27/2018 10:14	0.24	NTU	Turbidity
GC-AP-MW-6	2/27/2018 10:19	897	uS/cm	Conductivity
GC-AP-MW-6	2/27/2018 10:19	4.03	ft	Depth to Water Detail
GC-AP-MW-6	2/27/2018 10:19	0.36	mg/L	DO
GC-AP-MW-6	2/27/2018 10:19	74.6	mv	Oxidation Reduction Potention
GC-AP-MW-6	2/27/2018 10:19	6.53	pH	pH
GC-AP-MW-6	2/27/2018 10:19	19.52	C	Temperature
GC-AP-MW-6	2/27/2018 10:19	0.22	NTU	Turbidity
GC-AP-MW-6	2/27/2018 10:24	890.5	uS/cm	Conductivity
GC-AP-MW-6	2/27/2018 10:24	4.04	ft	Depth to Water Detail
GC-AP-MW-6	2/27/2018 10:24	0.34	mg/L	DO
GC-AP-MW-6	2/27/2018 10:24	70.4	mv	Oxidation Reduction Potention
GC-AP-MW-6	2/27/2018 10:24	6.53	pH	pH
GC-AP-MW-6	2/27/2018 10:24	19.6	C	Temperature
GC-AP-MW-6	2/27/2018 10:24	0.23	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-7	2/27/2018 11:02	1393.3	uS/cm	Conductivity
GC-AP-MW-7	2/27/2018 11:02	6.68	ft	Depth to Water Detail
GC-AP-MW-7	2/27/2018 11:02	2.23	mg/L	DO
GC-AP-MW-7	2/27/2018 11:02	180.8	mv	Oxidation Reduction Potention
GC-AP-MW-7	2/27/2018 11:02	6.45	pH	pH
GC-AP-MW-7	2/27/2018 11:02	19.63	C	Temperature
GC-AP-MW-7	2/27/2018 11:02	0.19	NTU	Turbidity
GC-AP-MW-7	2/27/2018 11:07	1409.5	uS/cm	Conductivity
GC-AP-MW-7	2/27/2018 11:07	6.68	ft	Depth to Water Detail
GC-AP-MW-7	2/27/2018 11:07	1.85	mg/L	DO
GC-AP-MW-7	2/27/2018 11:07	157.9	mv	Oxidation Reduction Potention
GC-AP-MW-7	2/27/2018 11:07	6.45	pH	pH
GC-AP-MW-7	2/27/2018 11:07	19.64	C	Temperature
GC-AP-MW-7	2/27/2018 11:07	0.27	NTU	Turbidity
GC-AP-MW-7	2/27/2018 11:12	1431.7	uS/cm	Conductivity
GC-AP-MW-7	2/27/2018 11:12	6.68	ft	Depth to Water Detail
GC-AP-MW-7	2/27/2018 11:12	1.63	mg/L	DO
GC-AP-MW-7	2/27/2018 11:12	124.9	mv	Oxidation Reduction Potention
GC-AP-MW-7	2/27/2018 11:12	6.45	pH	pH
GC-AP-MW-7	2/27/2018 11:12	19.64	C	Temperature
GC-AP-MW-7	2/27/2018 11:12	0.19	NTU	Turbidity
GC-AP-MW-7	2/27/2018 11:17	1434.5	uS/cm	Conductivity
GC-AP-MW-7	2/27/2018 11:17	6.68	ft	Depth to Water Detail
GC-AP-MW-7	2/27/2018 11:17	1.72	mg/L	DO
GC-AP-MW-7	2/27/2018 11:17	103.6	mv	Oxidation Reduction Potention
GC-AP-MW-7	2/27/2018 11:17	6.45	pH	pH
GC-AP-MW-7	2/27/2018 11:17	19.68	C	Temperature
GC-AP-MW-7	2/27/2018 11:17	0.19	NTU	Turbidity
GC-AP-MW-7	2/27/2018 11:22	1438.8	uS/cm	Conductivity
GC-AP-MW-7	2/27/2018 11:22	6.68	ft	Depth to Water Detail
GC-AP-MW-7	2/27/2018 11:22	1.84	mg/L	DO
GC-AP-MW-7	2/27/2018 11:22	89.7	mv	Oxidation Reduction Potention
GC-AP-MW-7	2/27/2018 11:22	6.45	pH	pH
GC-AP-MW-7	2/27/2018 11:22	19.79	C	Temperature
GC-AP-MW-7	2/27/2018 11:22	0.19	NTU	Turbidity
GC-AP-MW-7	2/27/2018 11:27	1453	uS/cm	Conductivity
GC-AP-MW-7	2/27/2018 11:27	6.68	ft	Depth to Water Detail
GC-AP-MW-7	2/27/2018 11:27	1.91	mg/L	DO
GC-AP-MW-7	2/27/2018 11:27	83.2	mv	Oxidation Reduction Potention
GC-AP-MW-7	2/27/2018 11:27	6.45	pH	pH
GC-AP-MW-7	2/27/2018 11:27	19.94	C	Temperature
GC-AP-MW-7	2/27/2018 11:27	0.19	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-8	2/27/2018 12:13	790.4	uS/cm	Conductivity
GC-AP-MW-8	2/27/2018 12:13	6.78	ft	Depth to Water Detail
GC-AP-MW-8	2/27/2018 12:13	1.02	mg/L	DO
GC-AP-MW-8	2/27/2018 12:13	90.7	mv	Oxidation Reduction Potention
GC-AP-MW-8	2/27/2018 12:13	6.33	pH	pH
GC-AP-MW-8	2/27/2018 12:13	19.85	C	Temperature
GC-AP-MW-8	2/27/2018 12:13	0.34	NTU	Turbidity
GC-AP-MW-8	2/27/2018 12:18	800.9	uS/cm	Conductivity
GC-AP-MW-8	2/27/2018 12:18	6.78	ft	Depth to Water Detail
GC-AP-MW-8	2/27/2018 12:18	0.8	mg/L	DO
GC-AP-MW-8	2/27/2018 12:18	83.5	mv	Oxidation Reduction Potention
GC-AP-MW-8	2/27/2018 12:18	6.34	pH	pH
GC-AP-MW-8	2/27/2018 12:18	19.83	C	Temperature
GC-AP-MW-8	2/27/2018 12:18	0.58	NTU	Turbidity
GC-AP-MW-8	2/27/2018 12:23	809.5	uS/cm	Conductivity
GC-AP-MW-8	2/27/2018 12:23	6.78	ft	Depth to Water Detail
GC-AP-MW-8	2/27/2018 12:23	0.7	mg/L	DO
GC-AP-MW-8	2/27/2018 12:23	78.8	mv	Oxidation Reduction Potention
GC-AP-MW-8	2/27/2018 12:23	6.35	pH	pH
GC-AP-MW-8	2/27/2018 12:23	19.83	C	Temperature
GC-AP-MW-8	2/27/2018 12:23	0.23	NTU	Turbidity
GC-AP-MW-8	2/27/2018 12:28	820.8	uS/cm	Conductivity
GC-AP-MW-8	2/27/2018 12:28	6.78	ft	Depth to Water Detail
GC-AP-MW-8	2/27/2018 12:28	0.62	mg/L	DO
GC-AP-MW-8	2/27/2018 12:28	77.3	mv	Oxidation Reduction Potention
GC-AP-MW-8	2/27/2018 12:28	6.36	pH	pH
GC-AP-MW-8	2/27/2018 12:28	19.81	C	Temperature
GC-AP-MW-8	2/27/2018 12:28	0.21	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-9	2/27/2018 13:19	766.8	uS/cm	Conductivity
GC-AP-MW-9	2/27/2018 13:19	3.75	ft	Depth to Water Detail
GC-AP-MW-9	2/27/2018 13:19	0.56	mg/L	DO
GC-AP-MW-9	2/27/2018 13:19	-40	mv	Oxidation Reduction Potention
GC-AP-MW-9	2/27/2018 13:19	6.53	pH	pH
GC-AP-MW-9	2/27/2018 13:19	19.86	C	Temperature
GC-AP-MW-9	2/27/2018 13:19	0.34	NTU	Turbidity
GC-AP-MW-9	2/27/2018 13:24	770.4	uS/cm	Conductivity
GC-AP-MW-9	2/27/2018 13:24	3.75	ft	Depth to Water Detail
GC-AP-MW-9	2/27/2018 13:24	0.51	mg/L	DO
GC-AP-MW-9	2/27/2018 13:24	-40	mv	Oxidation Reduction Potention
GC-AP-MW-9	2/27/2018 13:24	6.53	pH	pH
GC-AP-MW-9	2/27/2018 13:24	19.82	C	Temperature
GC-AP-MW-9	2/27/2018 13:24	0.25	NTU	Turbidity
GC-AP-MW-9	2/27/2018 13:29	774.1	uS/cm	Conductivity
GC-AP-MW-9	2/27/2018 13:29	3.75	ft	Depth to Water Detail
GC-AP-MW-9	2/27/2018 13:29	0.43	mg/L	DO
GC-AP-MW-9	2/27/2018 13:29	-40.1	mv	Oxidation Reduction Potention
GC-AP-MW-9	2/27/2018 13:29	6.53	pH	pH
GC-AP-MW-9	2/27/2018 13:29	19.8	C	Temperature
GC-AP-MW-9	2/27/2018 13:29	0.49	NTU	Turbidity
GC-AP-MW-9	2/27/2018 13:34	778.1	uS/cm	Conductivity
GC-AP-MW-9	2/27/2018 13:34	3.75	ft	Depth to Water Detail
GC-AP-MW-9	2/27/2018 13:34	0.47	mg/L	DO
GC-AP-MW-9	2/27/2018 13:34	-40.6	mv	Oxidation Reduction Potention
GC-AP-MW-9	2/27/2018 13:34	6.54	pH	pH
GC-AP-MW-9	2/27/2018 13:34	19.82	C	Temperature
GC-AP-MW-9	2/27/2018 13:34	0.25	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-10	2/27/2018 14:19	606.3	uS/cm	Conductivity
GC-AP-MW-10	2/27/2018 14:19	4.52	ft	Depth to Water Detail
GC-AP-MW-10	2/27/2018 14:19	0.46	mg/L	DO
GC-AP-MW-10	2/27/2018 14:19	-74.6	mv	Oxidation Reduction Potention
GC-AP-MW-10	2/27/2018 14:19	6.59	pH	pH
GC-AP-MW-10	2/27/2018 14:19	20.03	C	Temperature
GC-AP-MW-10	2/27/2018 14:19	0.37	NTU	Turbidity
GC-AP-MW-10	2/27/2018 14:24	604.9	uS/cm	Conductivity
GC-AP-MW-10	2/27/2018 14:24	4.52	ft	Depth to Water Detail
GC-AP-MW-10	2/27/2018 14:24	0.39	mg/L	DO
GC-AP-MW-10	2/27/2018 14:24	-73.4	mv	Oxidation Reduction Potention
GC-AP-MW-10	2/27/2018 14:24	6.59	pH	pH
GC-AP-MW-10	2/27/2018 14:24	20.08	C	Temperature
GC-AP-MW-10	2/27/2018 14:24	0.3	NTU	Turbidity
GC-AP-MW-10	2/27/2018 14:29	614.9	uS/cm	Conductivity
GC-AP-MW-10	2/27/2018 14:29	4.52	ft	Depth to Water Detail
GC-AP-MW-10	2/27/2018 14:29	0.35	mg/L	DO
GC-AP-MW-10	2/27/2018 14:29	-74.1	mv	Oxidation Reduction Potention
GC-AP-MW-10	2/27/2018 14:29	6.6	pH	pH
GC-AP-MW-10	2/27/2018 14:29	20.04	C	Temperature
GC-AP-MW-10	2/27/2018 14:29	0.25	NTU	Turbidity
GC-AP-MW-10	2/27/2018 14:34	613.8	uS/cm	Conductivity
GC-AP-MW-10	2/27/2018 14:34	4.52	ft	Depth to Water Detail
GC-AP-MW-10	2/27/2018 14:34	0.33	mg/L	DO
GC-AP-MW-10	2/27/2018 14:34	-72.5	mv	Oxidation Reduction Potention
GC-AP-MW-10	2/27/2018 14:34	6.59	pH	pH
GC-AP-MW-10	2/27/2018 14:34	19.97	C	Temperature
GC-AP-MW-10	2/27/2018 14:34	0.24	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-11	2/27/2018 15:16	349.4	uS/cm	Conductivity
GC-AP-MW-11	2/27/2018 15:16	16.23	ft	Depth to Water Detail
GC-AP-MW-11	2/27/2018 15:16	1.75	mg/L	DO
GC-AP-MW-11	2/27/2018 15:16	12.9	mv	Oxidation Reduction Potention
GC-AP-MW-11	2/27/2018 15:16	6.22	pH	pH
GC-AP-MW-11	2/27/2018 15:16	22.53	C	Temperature
GC-AP-MW-11	2/27/2018 15:16	0.27	NTU	Turbidity
GC-AP-MW-11	2/27/2018 15:21	345.2	uS/cm	Conductivity
GC-AP-MW-11	2/27/2018 15:21	16.23	ft	Depth to Water Detail
GC-AP-MW-11	2/27/2018 15:21	1.58	mg/L	DO
GC-AP-MW-11	2/27/2018 15:21	14.5	mv	Oxidation Reduction Potention
GC-AP-MW-11	2/27/2018 15:21	6.21	pH	pH
GC-AP-MW-11	2/27/2018 15:21	22.53	C	Temperature
GC-AP-MW-11	2/27/2018 15:21	0.21	NTU	Turbidity
GC-AP-MW-11	2/27/2018 15:26	349.4	uS/cm	Conductivity
GC-AP-MW-11	2/27/2018 15:26	16.23	ft	Depth to Water Detail
GC-AP-MW-11	2/27/2018 15:26	1.41	mg/L	DO
GC-AP-MW-11	2/27/2018 15:26	15.8	mv	Oxidation Reduction Potention
GC-AP-MW-11	2/27/2018 15:26	6.21	pH	pH
GC-AP-MW-11	2/27/2018 15:26	22.54	C	Temperature
GC-AP-MW-11	2/27/2018 15:26	0.2	NTU	Turbidity
GC-AP-MW-11	2/27/2018 15:31	351.4	uS/cm	Conductivity
GC-AP-MW-11	2/27/2018 15:31	16.23	ft	Depth to Water Detail
GC-AP-MW-11	2/27/2018 15:31	1.34	mg/L	DO
GC-AP-MW-11	2/27/2018 15:31	16.3	mv	Oxidation Reduction Potention
GC-AP-MW-11	2/27/2018 15:31	6.21	pH	pH
GC-AP-MW-11	2/27/2018 15:31	22.48	C	Temperature
GC-AP-MW-11	2/27/2018 15:31	0.19	NTU	Turbidity
GC-AP-MW-11	2/27/2018 15:36	349.3	uS/cm	Conductivity
GC-AP-MW-11	2/27/2018 15:36	16.23	ft	Depth to Water Detail
GC-AP-MW-11	2/27/2018 15:36	1.29	mg/L	DO
GC-AP-MW-11	2/27/2018 15:36	15.5	mv	Oxidation Reduction Potention
GC-AP-MW-11	2/27/2018 15:36	6.21	pH	pH
GC-AP-MW-11	2/27/2018 15:36	22.51	C	Temperature
GC-AP-MW-11	2/27/2018 15:36	0.21	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-12	2/28/2018 10:28	347.7	uS/cm	Conductivity
GC-AP-MW-12	2/28/2018 10:28	17.66	ft	Depth to Water Detail
GC-AP-MW-12	2/28/2018 10:28	2.42	mg/L	DO
GC-AP-MW-12	2/28/2018 10:28	72.9	mv	Oxidation Reduction Potention
GC-AP-MW-12	2/28/2018 10:28	6.95	pH	pH
GC-AP-MW-12	2/28/2018 10:28	15.78	C	Temperature
GC-AP-MW-12	2/28/2018 10:28	0.19	NTU	Turbidity
GC-AP-MW-12	2/28/2018 10:33	348.7	uS/cm	Conductivity
GC-AP-MW-12	2/28/2018 10:33	17.66	ft	Depth to Water Detail
GC-AP-MW-12	2/28/2018 10:33	2.14	mg/L	DO
GC-AP-MW-12	2/28/2018 10:33	72	mv	Oxidation Reduction Potention
GC-AP-MW-12	2/28/2018 10:33	6.95	pH	pH
GC-AP-MW-12	2/28/2018 10:33	15.84	C	Temperature
GC-AP-MW-12	2/28/2018 10:33	0.2	NTU	Turbidity
GC-AP-MW-12	2/28/2018 10:38	349.6	uS/cm	Conductivity
GC-AP-MW-12	2/28/2018 10:38	17.66	ft	Depth to Water Detail
GC-AP-MW-12	2/28/2018 10:38	2.01	mg/L	DO
GC-AP-MW-12	2/28/2018 10:38	72	mv	Oxidation Reduction Potention
GC-AP-MW-12	2/28/2018 10:38	6.95	pH	pH
GC-AP-MW-12	2/28/2018 10:38	15.71	C	Temperature
GC-AP-MW-12	2/28/2018 10:38	0.19	NTU	Turbidity
GC-AP-MW-12	2/28/2018 10:43	352.7	uS/cm	Conductivity
GC-AP-MW-12	2/28/2018 10:43	17.66	ft	Depth to Water Detail
GC-AP-MW-12	2/28/2018 10:43	1.89	mg/L	DO
GC-AP-MW-12	2/28/2018 10:43	71.2	mv	Oxidation Reduction Potention
GC-AP-MW-12	2/28/2018 10:43	6.94	pH	pH
GC-AP-MW-12	2/28/2018 10:43	15.71	C	Temperature
GC-AP-MW-12	2/28/2018 10:43	0.19	NTU	Turbidity
GC-AP-MW-12	2/28/2018 10:48	349.9	uS/cm	Conductivity
GC-AP-MW-12	2/28/2018 10:48	17.66	ft	Depth to Water Detail
GC-AP-MW-12	2/28/2018 10:48	1.81	mg/L	DO
GC-AP-MW-12	2/28/2018 10:48	69.9	mv	Oxidation Reduction Potention
GC-AP-MW-12	2/28/2018 10:48	6.94	pH	pH
GC-AP-MW-12	2/28/2018 10:48	15.71	C	Temperature
GC-AP-MW-12	2/28/2018 10:48	0.19	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-13	2/28/2018 11:24	317	uS/cm	Conductivity
GC-AP-MW-13	2/28/2018 11:24	18.65	ft	Depth to Water Detail
GC-AP-MW-13	2/28/2018 11:24	5.38	mg/L	DO
GC-AP-MW-13	2/28/2018 11:24	80.2	mv	Oxidation Reduction Potention
GC-AP-MW-13	2/28/2018 11:24	6.72	pH	pH
GC-AP-MW-13	2/28/2018 11:24	15.07	C	Temperature
GC-AP-MW-13	2/28/2018 11:24	0.41	NTU	Turbidity
GC-AP-MW-13	2/28/2018 11:29	316	uS/cm	Conductivity
GC-AP-MW-13	2/28/2018 11:29	18.65	ft	Depth to Water Detail
GC-AP-MW-13	2/28/2018 11:29	4.92	mg/L	DO
GC-AP-MW-13	2/28/2018 11:29	80.3	mv	Oxidation Reduction Potention
GC-AP-MW-13	2/28/2018 11:29	6.74	pH	pH
GC-AP-MW-13	2/28/2018 11:29	14.96	C	Temperature
GC-AP-MW-13	2/28/2018 11:29	0.45	NTU	Turbidity
GC-AP-MW-13	2/28/2018 11:34	317.1	uS/cm	Conductivity
GC-AP-MW-13	2/28/2018 11:34	18.65	ft	Depth to Water Detail
GC-AP-MW-13	2/28/2018 11:34	4.71	mg/L	DO
GC-AP-MW-13	2/28/2018 11:34	81	mv	Oxidation Reduction Potention
GC-AP-MW-13	2/28/2018 11:34	6.71	pH	pH
GC-AP-MW-13	2/28/2018 11:34	14.94	C	Temperature
GC-AP-MW-13	2/28/2018 11:34	0.43	NTU	Turbidity
GC-AP-MW-13	2/28/2018 11:39	316.7	uS/cm	Conductivity
GC-AP-MW-13	2/28/2018 11:39	18.65	ft	Depth to Water Detail
GC-AP-MW-13	2/28/2018 11:39	4.56	mg/L	DO
GC-AP-MW-13	2/28/2018 11:39	80.6	mv	Oxidation Reduction Potention
GC-AP-MW-13	2/28/2018 11:39	6.72	pH	pH
GC-AP-MW-13	2/28/2018 11:39	14.94	C	Temperature
GC-AP-MW-13	2/28/2018 11:39	0.45	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-14	2/27/2018 16:11	882.3	uS/cm	Conductivity
GC-AP-MW-14	2/27/2018 16:11	2.48	ft	Depth to Water Detail
GC-AP-MW-14	2/27/2018 16:11	0.27	mg/L	DO
GC-AP-MW-14	2/27/2018 16:11	-17.2	mv	Oxidation Reduction Potention
GC-AP-MW-14	2/27/2018 16:11	6.27	pH	pH
GC-AP-MW-14	2/27/2018 16:11	19.9	C	Temperature
GC-AP-MW-14	2/27/2018 16:11	2.01	NTU	Turbidity
GC-AP-MW-14	2/27/2018 16:16	891.4	uS/cm	Conductivity
GC-AP-MW-14	2/27/2018 16:16	2.48	ft	Depth to Water Detail
GC-AP-MW-14	2/27/2018 16:16	0.27	mg/L	DO
GC-AP-MW-14	2/27/2018 16:16	-18.1	mv	Oxidation Reduction Potention
GC-AP-MW-14	2/27/2018 16:16	6.27	pH	pH
GC-AP-MW-14	2/27/2018 16:16	19.86	C	Temperature
GC-AP-MW-14	2/27/2018 16:16	1.59	NTU	Turbidity
GC-AP-MW-14	2/27/2018 16:21	883.9	uS/cm	Conductivity
GC-AP-MW-14	2/27/2018 16:21	2.48	ft	Depth to Water Detail
GC-AP-MW-14	2/27/2018 16:21	0.27	mg/L	DO
GC-AP-MW-14	2/27/2018 16:21	-22.4	mv	Oxidation Reduction Potention
GC-AP-MW-14	2/27/2018 16:21	6.28	pH	pH
GC-AP-MW-14	2/27/2018 16:21	19.9	C	Temperature
GC-AP-MW-14	2/27/2018 16:21	1.51	NTU	Turbidity
GC-AP-MW-14	2/27/2018 16:26	882.1	uS/cm	Conductivity
GC-AP-MW-14	2/27/2018 16:26	2.48	ft	Depth to Water Detail
GC-AP-MW-14	2/27/2018 16:26	0.28	mg/L	DO
GC-AP-MW-14	2/27/2018 16:26	-23.7	mv	Oxidation Reduction Potention
GC-AP-MW-14	2/27/2018 16:26	6.28	pH	pH
GC-AP-MW-14	2/27/2018 16:26	19.87	C	Temperature
GC-AP-MW-14	2/27/2018 16:26	2.11	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-15	2/28/2018 12:15	495	uS/cm	Conductivity
GC-AP-MW-15	2/28/2018 12:15	9.98	ft	Depth to Water Detail
GC-AP-MW-15	2/28/2018 12:15	1.49	mg/L	DO
GC-AP-MW-15	2/28/2018 12:15	74.1	mv	Oxidation Reduction Potention
GC-AP-MW-15	2/28/2018 12:15	6.09	pH	pH
GC-AP-MW-15	2/28/2018 12:15	19.68	C	Temperature
GC-AP-MW-15	2/28/2018 12:15	0.25	NTU	Turbidity
GC-AP-MW-15	2/28/2018 12:20	492.5	uS/cm	Conductivity
GC-AP-MW-15	2/28/2018 12:20	9.98	ft	Depth to Water Detail
GC-AP-MW-15	2/28/2018 12:20	1.44	mg/L	DO
GC-AP-MW-15	2/28/2018 12:20	62	mv	Oxidation Reduction Potention
GC-AP-MW-15	2/28/2018 12:20	6.1	pH	pH
GC-AP-MW-15	2/28/2018 12:20	19.72	C	Temperature
GC-AP-MW-15	2/28/2018 12:20	0.23	NTU	Turbidity
GC-AP-MW-15	2/28/2018 12:25	485.6	uS/cm	Conductivity
GC-AP-MW-15	2/28/2018 12:25	9.98	ft	Depth to Water Detail
GC-AP-MW-15	2/28/2018 12:25	1.21	mg/L	DO
GC-AP-MW-15	2/28/2018 12:25	60.5	mv	Oxidation Reduction Potention
GC-AP-MW-15	2/28/2018 12:25	6.1	pH	pH
GC-AP-MW-15	2/28/2018 12:25	19.72	C	Temperature
GC-AP-MW-15	2/28/2018 12:25	0.22	NTU	Turbidity
GC-AP-MW-15	2/28/2018 12:30	493.1	uS/cm	Conductivity
GC-AP-MW-15	2/28/2018 12:30	9.98	ft	Depth to Water Detail
GC-AP-MW-15	2/28/2018 12:30	1.26	mg/L	DO
GC-AP-MW-15	2/28/2018 12:30	56	mv	Oxidation Reduction Potention
GC-AP-MW-15	2/28/2018 12:30	6.11	pH	pH
GC-AP-MW-15	2/28/2018 12:30	19.73	C	Temperature
GC-AP-MW-15	2/28/2018 12:30	0.21	NTU	Turbidity
GC-AP-MW-15	2/28/2018 12:35	483.4	uS/cm	Conductivity
GC-AP-MW-15	2/28/2018 12:35	9.98	ft	Depth to Water Detail
GC-AP-MW-15	2/28/2018 12:35	1.25	mg/L	DO
GC-AP-MW-15	2/28/2018 12:35	54	mv	Oxidation Reduction Potention
GC-AP-MW-15	2/28/2018 12:35	6.11	pH	pH
GC-AP-MW-15	2/28/2018 12:35	19.73	C	Temperature
GC-AP-MW-15	2/28/2018 12:35	0.19	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-16	2/28/2018 9:48	668.6	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 9:48	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 9:48	0.18	mg/L	DO
GC-AP-MW-16	2/28/2018 9:48	-23.9	mv	Oxidation Reduction Potention
GC-AP-MW-16	2/28/2018 9:48	6.43	pH	pH
GC-AP-MW-16	2/28/2018 9:48	19.64	C	Temperature
GC-AP-MW-16	2/28/2018 9:48	83.4	NTU	Turbidity
GC-AP-MW-16	2/28/2018 9:53	665.2	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 9:53	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 9:53	0.15	mg/L	DO
GC-AP-MW-16	2/28/2018 9:53	-23	mv	Oxidation Reduction Potention
GC-AP-MW-16	2/28/2018 9:53	6.39	pH	pH
GC-AP-MW-16	2/28/2018 9:53	19.62	C	Temperature
GC-AP-MW-16	2/28/2018 9:53	67.8	NTU	Turbidity
GC-AP-MW-16	2/28/2018 9:58	661.3	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 9:58	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 9:58	0.13	mg/L	DO
GC-AP-MW-16	2/28/2018 9:58	-22.1	mv	Oxidation Reduction Potention
GC-AP-MW-16	2/28/2018 9:58	6.38	pH	pH
GC-AP-MW-16	2/28/2018 9:58	19.64	C	Temperature
GC-AP-MW-16	2/28/2018 9:58	44.9	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:03	657.9	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:03	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:03	0.12	mg/L	DO
GC-AP-MW-16	2/28/2018 10:03	-21.2	mv	Oxidation Reduction Potention
GC-AP-MW-16	2/28/2018 10:03	6.36	pH	pH
GC-AP-MW-16	2/28/2018 10:03	19.64	C	Temperature
GC-AP-MW-16	2/28/2018 10:03	28.2	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:08	651.8	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:08	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:08	0.12	mg/L	DO
GC-AP-MW-16	2/28/2018 10:08	-20.6	mv	Oxidation Reduction Potention
GC-AP-MW-16	2/28/2018 10:08	6.35	pH	pH
GC-AP-MW-16	2/28/2018 10:08	19.75	C	Temperature
GC-AP-MW-16	2/28/2018 10:08	21.5	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:13	647.9	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:13	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:13	0.12	mg/L	DO
GC-AP-MW-16	2/28/2018 10:13	-20	mv	Oxidation Reduction Potention
GC-AP-MW-16	2/28/2018 10:13	6.34	pH	pH
GC-AP-MW-16	2/28/2018 10:13	19.73	C	Temperature
GC-AP-MW-16	2/28/2018 10:13	14.5	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:18	648.7	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:18	26.6	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-16	2/28/2018 10:18	0.11	mg/L	DO
GC-AP-MW-16	2/28/2018 10:18	-19.8	mv	Oxidation Reduction Potential
GC-AP-MW-16	2/28/2018 10:18	6.34	pH	pH
GC-AP-MW-16	2/28/2018 10:18	19.68	C	Temperature
GC-AP-MW-16	2/28/2018 10:18	12.2	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:23	646.5	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:23	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:23	0.11	mg/L	DO
GC-AP-MW-16	2/28/2018 10:23	-19.7	mv	Oxidation Reduction Potential
GC-AP-MW-16	2/28/2018 10:23	6.34	pH	pH
GC-AP-MW-16	2/28/2018 10:23	19.68	C	Temperature
GC-AP-MW-16	2/28/2018 10:23	10.58	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:28	645.3	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:28	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:28	0.12	mg/L	DO
GC-AP-MW-16	2/28/2018 10:28	-19.8	mv	Oxidation Reduction Potential
GC-AP-MW-16	2/28/2018 10:28	6.34	pH	pH
GC-AP-MW-16	2/28/2018 10:28	19.69	C	Temperature
GC-AP-MW-16	2/28/2018 10:28	8.57	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:33	642.4	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:33	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:33	0.11	mg/L	DO
GC-AP-MW-16	2/28/2018 10:33	-19.7	mv	Oxidation Reduction Potential
GC-AP-MW-16	2/28/2018 10:33	6.34	pH	pH
GC-AP-MW-16	2/28/2018 10:33	19.77	C	Temperature
GC-AP-MW-16	2/28/2018 10:33	7.23	NTU	Turbidity
GC-AP-MW-16	2/28/2018 10:38	641.3	uS/cm	Conductivity
GC-AP-MW-16	2/28/2018 10:38	26.6	ft	Depth to Water Detail
GC-AP-MW-16	2/28/2018 10:38	0.11	mg/L	DO
GC-AP-MW-16	2/28/2018 10:38	-19.5	mv	Oxidation Reduction Potential
GC-AP-MW-16	2/28/2018 10:38	6.33	pH	pH
GC-AP-MW-16	2/28/2018 10:38	19.74	C	Temperature
GC-AP-MW-16	2/28/2018 10:38	6.35	NTU	Turbidity

**Alabama Power Company
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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-17	2/28/2018 9:03	791.1	uS/cm	Conductivity
GC-AP-MW-17	2/28/2018 9:03	23.2	ft	Depth to Water Detail
GC-AP-MW-17	2/28/2018 9:03	0.2	mg/L	DO
GC-AP-MW-17	2/28/2018 9:03	-86.5	mv	Oxidation Reduction Potention
GC-AP-MW-17	2/28/2018 9:03	6.55	pH	pH
GC-AP-MW-17	2/28/2018 9:03	20.12	C	Temperature
GC-AP-MW-17	2/28/2018 9:03	1.98	NTU	Turbidity
GC-AP-MW-17	2/28/2018 9:08	790.3	uS/cm	Conductivity
GC-AP-MW-17	2/28/2018 9:08	23.2	ft	Depth to Water Detail
GC-AP-MW-17	2/28/2018 9:08	0.16	mg/L	DO
GC-AP-MW-17	2/28/2018 9:08	-93.1	mv	Oxidation Reduction Potention
GC-AP-MW-17	2/28/2018 9:08	6.56	pH	pH
GC-AP-MW-17	2/28/2018 9:08	20.13	C	Temperature
GC-AP-MW-17	2/28/2018 9:08	2.11	NTU	Turbidity
GC-AP-MW-17	2/28/2018 9:13	791.9	uS/cm	Conductivity
GC-AP-MW-17	2/28/2018 9:13	23.2	ft	Depth to Water Detail
GC-AP-MW-17	2/28/2018 9:13	0.15	mg/L	DO
GC-AP-MW-17	2/28/2018 9:13	-95.5	mv	Oxidation Reduction Potention
GC-AP-MW-17	2/28/2018 9:13	6.56	pH	pH
GC-AP-MW-17	2/28/2018 9:13	20.12	C	Temperature
GC-AP-MW-17	2/28/2018 9:13	2.1	NTU	Turbidity
GC-AP-MW-17	2/28/2018 9:18	793.7	uS/cm	Conductivity
GC-AP-MW-17	2/28/2018 9:18	23.2	ft	Depth to Water Detail
GC-AP-MW-17	2/28/2018 9:18	0.15	mg/L	DO
GC-AP-MW-17	2/28/2018 9:18	-95.7	mv	Oxidation Reduction Potention
GC-AP-MW-17	2/28/2018 9:18	6.57	pH	pH
GC-AP-MW-17	2/28/2018 9:18	20.13	C	Temperature
GC-AP-MW-17	2/28/2018 9:18	2.03	NTU	Turbidity

**Alabama Power Company
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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-18	2/28/2018 11:08	539.9	uS/cm	Conductivity
GC-AP-MW-18	2/28/2018 11:08	22.32	ft	Depth to Water Detail
GC-AP-MW-18	2/28/2018 11:08	0.22	mg/L	DO
GC-AP-MW-18	2/28/2018 11:08	-6.9	mv	Oxidation Reduction Potention
GC-AP-MW-18	2/28/2018 11:08	6.32	pH	pH
GC-AP-MW-18	2/28/2018 11:08	20.14	C	Temperature
GC-AP-MW-18	2/28/2018 11:08	2.62	NTU	Turbidity
GC-AP-MW-18	2/28/2018 11:13	541.8	uS/cm	Conductivity
GC-AP-MW-18	2/28/2018 11:13	22.32	ft	Depth to Water Detail
GC-AP-MW-18	2/28/2018 11:13	0.17	mg/L	DO
GC-AP-MW-18	2/28/2018 11:13	-7.7	mv	Oxidation Reduction Potention
GC-AP-MW-18	2/28/2018 11:13	6.31	pH	pH
GC-AP-MW-18	2/28/2018 11:13	20.22	C	Temperature
GC-AP-MW-18	2/28/2018 11:13	2.12	NTU	Turbidity
GC-AP-MW-18	2/28/2018 11:18	549.1	uS/cm	Conductivity
GC-AP-MW-18	2/28/2018 11:18	22.32	ft	Depth to Water Detail
GC-AP-MW-18	2/28/2018 11:18	0.16	mg/L	DO
GC-AP-MW-18	2/28/2018 11:18	-8.4	mv	Oxidation Reduction Potention
GC-AP-MW-18	2/28/2018 11:18	6.31	pH	pH
GC-AP-MW-18	2/28/2018 11:18	20.18	C	Temperature
GC-AP-MW-18	2/28/2018 11:18	2.17	NTU	Turbidity
GC-AP-MW-18	2/28/2018 11:23	553.2	uS/cm	Conductivity
GC-AP-MW-18	2/28/2018 11:23	22.32	ft	Depth to Water Detail
GC-AP-MW-18	2/28/2018 11:23	0.14	mg/L	DO
GC-AP-MW-18	2/28/2018 11:23	-8.7	mv	Oxidation Reduction Potention
GC-AP-MW-18	2/28/2018 11:23	6.31	pH	pH
GC-AP-MW-18	2/28/2018 11:23	20.23	C	Temperature
GC-AP-MW-18	2/28/2018 11:23	1.26	NTU	Turbidity

**Alabama Power Company
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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-21	2/28/2018 9:22	357.1	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:22	19.79	ft	Depth to Water Detail
GC-AP-MW-21	2/28/2018 9:22	2.26	mg/L	DO
GC-AP-MW-21	2/28/2018 9:22	64.8	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:22	6.77	pH	pH
GC-AP-MW-21	2/28/2018 9:22	18.17	C	Temperature
GC-AP-MW-21	2/28/2018 9:22	0.38	NTU	Turbidity
GC-AP-MW-21	2/28/2018 9:27	351.5	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:27	19.79	ft	Depth to Water Detail
GC-AP-MW-21	2/28/2018 9:27	2.51	mg/L	DO
GC-AP-MW-21	2/28/2018 9:27	66.1	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:27	6.81	pH	pH
GC-AP-MW-21	2/28/2018 9:27	18.17	C	Temperature
GC-AP-MW-21	2/28/2018 9:27	0.3	NTU	Turbidity
GC-AP-MW-21	2/28/2018 9:32	356.6	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:32	19.79	ft	Depth to Water Detail
GC-AP-MW-21	2/28/2018 9:32	2.82	mg/L	DO
GC-AP-MW-21	2/28/2018 9:32	64.6	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:32	6.82	pH	pH
GC-AP-MW-21	2/28/2018 9:32	18.17	C	Temperature
GC-AP-MW-21	2/28/2018 9:32	0.26	NTU	Turbidity
GC-AP-MW-21	2/28/2018 9:37	348.4	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:37	19.77	ft	Depth to Water Detail
GC-AP-MW-21	2/28/2018 9:37	3.04	mg/L	DO
GC-AP-MW-21	2/28/2018 9:37	60.5	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:37	6.84	pH	pH
GC-AP-MW-21	2/28/2018 9:37	18.17	C	Temperature
GC-AP-MW-21	2/28/2018 9:37	0.31	NTU	Turbidity
GC-AP-MW-21	2/28/2018 9:47	352.1	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:47	19.77	ft	Depth to Water Detail
GC-AP-MW-21	2/28/2018 9:47	3.54	mg/L	DO
GC-AP-MW-21	2/28/2018 9:47	55.5	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:47	6.87	pH	pH
GC-AP-MW-21	2/28/2018 9:47	18.22	C	Temperature
GC-AP-MW-21	2/28/2018 9:47	0.26	NTU	Turbidity
GC-AP-MW-21	2/28/2018 9:52	348	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:52	19.77	ft	Depth to Water Detail
GC-AP-MW-21	2/28/2018 9:52	3.77	mg/L	DO
GC-AP-MW-21	2/28/2018 9:52	47.5	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:52	6.86	pH	pH
GC-AP-MW-21	2/28/2018 9:52	18.26	C	Temperature
GC-AP-MW-21	2/28/2018 9:52	0.34	NTU	Turbidity
GC-AP-MW-21	2/28/2018 9:57	348.6	uS/cm	Conductivity
GC-AP-MW-21	2/28/2018 9:57	19.77	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-21	2/28/2018 9:57	3.81	mg/L	DO
GC-AP-MW-21	2/28/2018 9:57	48.3	mv	Oxidation Reduction Potention
GC-AP-MW-21	2/28/2018 9:57	6.87	pH	pH
GC-AP-MW-21	2/28/2018 9:57	18.26	C	Temperature
GC-AP-MW-21	2/28/2018 9:57	0.31	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-23	2/27/2018 14:18	163.4	uS/cm	Conductivity
GC-AP-MW-23	2/27/2018 14:18	14.88	ft	Depth to Water Detail
GC-AP-MW-23	2/27/2018 14:18	5.54	mg/L	DO
GC-AP-MW-23	2/27/2018 14:18	57.1	mv	Oxidation Reduction Potention
GC-AP-MW-23	2/27/2018 14:18	6.47	pH	pH
GC-AP-MW-23	2/27/2018 14:18	18.75	C	Temperature
GC-AP-MW-23	2/27/2018 14:18	2.74	NTU	Turbidity
GC-AP-MW-23	2/27/2018 14:23	158.6	uS/cm	Conductivity
GC-AP-MW-23	2/27/2018 14:23	14.88	ft	Depth to Water Detail
GC-AP-MW-23	2/27/2018 14:23	5.68	mg/L	DO
GC-AP-MW-23	2/27/2018 14:23	57.9	mv	Oxidation Reduction Potention
GC-AP-MW-23	2/27/2018 14:23	6.48	pH	pH
GC-AP-MW-23	2/27/2018 14:23	18.83	C	Temperature
GC-AP-MW-23	2/27/2018 14:23	1.82	NTU	Turbidity
GC-AP-MW-23	2/27/2018 14:28	158	uS/cm	Conductivity
GC-AP-MW-23	2/27/2018 14:28	14.88	ft	Depth to Water Detail
GC-AP-MW-23	2/27/2018 14:28	5.64	mg/L	DO
GC-AP-MW-23	2/27/2018 14:28	59.3	mv	Oxidation Reduction Potention
GC-AP-MW-23	2/27/2018 14:28	6.49	pH	pH
GC-AP-MW-23	2/27/2018 14:28	18.84	C	Temperature
GC-AP-MW-23	2/27/2018 14:28	1.44	NTU	Turbidity
GC-AP-MW-23	2/27/2018 14:33	157	uS/cm	Conductivity
GC-AP-MW-23	2/27/2018 14:33	14.88	ft	Depth to Water Detail
GC-AP-MW-23	2/27/2018 14:33	5.65	mg/L	DO
GC-AP-MW-23	2/27/2018 14:33	61.8	mv	Oxidation Reduction Potention
GC-AP-MW-23	2/27/2018 14:33	6.49	pH	pH
GC-AP-MW-23	2/27/2018 14:33	18.78	C	Temperature
GC-AP-MW-23	2/27/2018 14:33	1.29	NTU	Turbidity

**Alabama Power Company
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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-24	2/27/2018 13:15	255.4	uS/cm	Conductivity
GC-AP-MW-24	2/27/2018 13:15	18.78	ft	Depth to Water Detail
GC-AP-MW-24	2/27/2018 13:15	4.82	mg/L	DO
GC-AP-MW-24	2/27/2018 13:15	110	mv	Oxidation Reduction Potention
GC-AP-MW-24	2/27/2018 13:15	5.43	pH	pH
GC-AP-MW-24	2/27/2018 13:15	20.52	C	Temperature
GC-AP-MW-24	2/27/2018 13:15	1.9	NTU	Turbidity
GC-AP-MW-24	2/27/2018 13:20	248.8	uS/cm	Conductivity
GC-AP-MW-24	2/27/2018 13:20	18.78	ft	Depth to Water Detail
GC-AP-MW-24	2/27/2018 13:20	4.74	mg/L	DO
GC-AP-MW-24	2/27/2018 13:20	104.3	mv	Oxidation Reduction Potention
GC-AP-MW-24	2/27/2018 13:20	5.46	pH	pH
GC-AP-MW-24	2/27/2018 13:20	20.57	C	Temperature
GC-AP-MW-24	2/27/2018 13:20	1.71	NTU	Turbidity
GC-AP-MW-24	2/27/2018 13:25	243.7	uS/cm	Conductivity
GC-AP-MW-24	2/27/2018 13:25	18.78	ft	Depth to Water Detail
GC-AP-MW-24	2/27/2018 13:25	4.77	mg/L	DO
GC-AP-MW-24	2/27/2018 13:25	101.6	mv	Oxidation Reduction Potention
GC-AP-MW-24	2/27/2018 13:25	5.47	pH	pH
GC-AP-MW-24	2/27/2018 13:25	20.39	C	Temperature
GC-AP-MW-24	2/27/2018 13:25	1.54	NTU	Turbidity
GC-AP-MW-24	2/27/2018 13:30	238.1	uS/cm	Conductivity
GC-AP-MW-24	2/27/2018 13:30	18.78	ft	Depth to Water Detail
GC-AP-MW-24	2/27/2018 13:30	4.75	mg/L	DO
GC-AP-MW-24	2/27/2018 13:30	99.1	mv	Oxidation Reduction Potention
GC-AP-MW-24	2/27/2018 13:30	5.48	pH	pH
GC-AP-MW-24	2/27/2018 13:30	20.44	C	Temperature
GC-AP-MW-24	2/27/2018 13:30	1.53	NTU	Turbidity

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Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-25	2/28/2018 12:01	201.6	uS/cm	Conductivity
GC-AP-MW-25	2/28/2018 12:01	6.17	ft	Depth to Water Detail
GC-AP-MW-25	2/28/2018 12:01	0.51	mg/L	DO
GC-AP-MW-25	2/28/2018 12:01	168.6	mv	Oxidation Reduction Potention
GC-AP-MW-25	2/28/2018 12:01	5.24	pH	pH
GC-AP-MW-25	2/28/2018 12:01	20.71	C	Temperature
GC-AP-MW-25	2/28/2018 12:01	0.64	NTU	Turbidity
GC-AP-MW-25	2/28/2018 12:06	203.1	uS/cm	Conductivity
GC-AP-MW-25	2/28/2018 12:06	6.27	ft	Depth to Water Detail
GC-AP-MW-25	2/28/2018 12:06	0.45	mg/L	DO
GC-AP-MW-25	2/28/2018 12:06	166.5	mv	Oxidation Reduction Potention
GC-AP-MW-25	2/28/2018 12:06	5.26	pH	pH
GC-AP-MW-25	2/28/2018 12:06	20.71	C	Temperature
GC-AP-MW-25	2/28/2018 12:06	0.68	NTU	Turbidity
GC-AP-MW-25	2/28/2018 12:11	202.8	uS/cm	Conductivity
GC-AP-MW-25	2/28/2018 12:11	6.29	ft	Depth to Water Detail
GC-AP-MW-25	2/28/2018 12:11	0.42	mg/L	DO
GC-AP-MW-25	2/28/2018 12:11	165.9	mv	Oxidation Reduction Potention
GC-AP-MW-25	2/28/2018 12:11	5.26	pH	pH
GC-AP-MW-25	2/28/2018 12:11	20.79	C	Temperature
GC-AP-MW-25	2/28/2018 12:11	0.54	NTU	Turbidity
GC-AP-MW-25	2/28/2018 12:16	203.9	uS/cm	Conductivity
GC-AP-MW-25	2/28/2018 12:16	6.31	ft	Depth to Water Detail
GC-AP-MW-25	2/28/2018 12:16	0.39	mg/L	DO
GC-AP-MW-25	2/28/2018 12:16	164.7	mv	Oxidation Reduction Potention
GC-AP-MW-25	2/28/2018 12:16	5.28	pH	pH
GC-AP-MW-25	2/28/2018 12:16	21.06	C	Temperature
GC-AP-MW-25	2/28/2018 12:16	0.73	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-26	2/27/2018 12:37	53.1	uS/cm	Conductivity
GC-AP-MW-26	2/27/2018 12:37	3.68	ft	Depth to Water Detail
GC-AP-MW-26	2/27/2018 12:37	6.99	mg/L	DO
GC-AP-MW-26	2/27/2018 12:37	231.7	mv	Oxidation Reduction Potention
GC-AP-MW-26	2/27/2018 12:37	4.69	pH	pH
GC-AP-MW-26	2/27/2018 12:37	19.32	C	Temperature
GC-AP-MW-26	2/27/2018 12:37	1.23	NTU	Turbidity
GC-AP-MW-26	2/27/2018 12:42	52.4	uS/cm	Conductivity
GC-AP-MW-26	2/27/2018 12:42	3.68	ft	Depth to Water Detail
GC-AP-MW-26	2/27/2018 12:42	6.79	mg/L	DO
GC-AP-MW-26	2/27/2018 12:42	220	mv	Oxidation Reduction Potention
GC-AP-MW-26	2/27/2018 12:42	4.72	pH	pH
GC-AP-MW-26	2/27/2018 12:42	19.35	C	Temperature
GC-AP-MW-26	2/27/2018 12:42	2.09	NTU	Turbidity
GC-AP-MW-26	2/27/2018 12:47	50.9	uS/cm	Conductivity
GC-AP-MW-26	2/27/2018 12:47	3.68	ft	Depth to Water Detail
GC-AP-MW-26	2/27/2018 12:47	6.55	mg/L	DO
GC-AP-MW-26	2/27/2018 12:47	211.1	mv	Oxidation Reduction Potention
GC-AP-MW-26	2/27/2018 12:47	4.83	pH	pH
GC-AP-MW-26	2/27/2018 12:47	19.47	C	Temperature
GC-AP-MW-26	2/27/2018 12:47	1.33	NTU	Turbidity
GC-AP-MW-26	2/27/2018 12:52	49.6	uS/cm	Conductivity
GC-AP-MW-26	2/27/2018 12:52	3.68	ft	Depth to Water Detail
GC-AP-MW-26	2/27/2018 12:52	6.39	mg/L	DO
GC-AP-MW-26	2/27/2018 12:52	205.5	mv	Oxidation Reduction Potention
GC-AP-MW-26	2/27/2018 12:52	4.92	pH	pH
GC-AP-MW-26	2/27/2018 12:52	19.5	C	Temperature
GC-AP-MW-26	2/27/2018 12:52	1.54	NTU	Turbidity
GC-AP-MW-26	2/27/2018 12:57	49.5	uS/cm	Conductivity
GC-AP-MW-26	2/27/2018 12:57	3.68	ft	Depth to Water Detail
GC-AP-MW-26	2/27/2018 12:57	6.32	mg/L	DO
GC-AP-MW-26	2/27/2018 12:57	197.8	mv	Oxidation Reduction Potention
GC-AP-MW-26	2/27/2018 12:57	5.03	pH	pH
GC-AP-MW-26	2/27/2018 12:57	19.44	C	Temperature
GC-AP-MW-26	2/27/2018 12:57	2.38	NTU	Turbidity
GC-AP-MW-26	2/27/2018 13:02	48.6	uS/cm	Conductivity
GC-AP-MW-26	2/27/2018 13:02	3.68	ft	Depth to Water Detail
GC-AP-MW-26	2/27/2018 13:02	6.17	mg/L	DO
GC-AP-MW-26	2/27/2018 13:02	201.1	mv	Oxidation Reduction Potention
GC-AP-MW-26	2/27/2018 13:02	5.11	pH	pH
GC-AP-MW-26	2/27/2018 13:02	19.59	C	Temperature
GC-AP-MW-26	2/27/2018 13:02	1.84	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-27	2/27/2018 11:56	24.9	uS/cm	Conductivity
GC-AP-MW-27	2/27/2018 11:56	6.48	ft	Depth to Water Detail
GC-AP-MW-27	2/27/2018 11:56	5.34	mg/L	DO
GC-AP-MW-27	2/27/2018 11:56	209.2	mv	Oxidation Reduction Potention
GC-AP-MW-27	2/27/2018 11:56	4.94	pH	pH
GC-AP-MW-27	2/27/2018 11:56	20.13	C	Temperature
GC-AP-MW-27	2/27/2018 11:56	0.79	NTU	Turbidity
GC-AP-MW-27	2/27/2018 12:01	24.8	uS/cm	Conductivity
GC-AP-MW-27	2/27/2018 12:01	6.48	ft	Depth to Water Detail
GC-AP-MW-27	2/27/2018 12:01	5.22	mg/L	DO
GC-AP-MW-27	2/27/2018 12:01	208.9	mv	Oxidation Reduction Potention
GC-AP-MW-27	2/27/2018 12:01	4.94	pH	pH
GC-AP-MW-27	2/27/2018 12:01	20.26	C	Temperature
GC-AP-MW-27	2/27/2018 12:01	0.92	NTU	Turbidity
GC-AP-MW-27	2/27/2018 12:06	25.2	uS/cm	Conductivity
GC-AP-MW-27	2/27/2018 12:06	6.48	ft	Depth to Water Detail
GC-AP-MW-27	2/27/2018 12:06	5.14	mg/L	DO
GC-AP-MW-27	2/27/2018 12:06	208.8	mv	Oxidation Reduction Potention
GC-AP-MW-27	2/27/2018 12:06	4.97	pH	pH
GC-AP-MW-27	2/27/2018 12:06	20.44	C	Temperature
GC-AP-MW-27	2/27/2018 12:06	1.02	NTU	Turbidity
GC-AP-MW-27	2/27/2018 12:11	25.2	uS/cm	Conductivity
GC-AP-MW-27	2/27/2018 12:11	6.48	ft	Depth to Water Detail
GC-AP-MW-27	2/27/2018 12:11	5.11	mg/L	DO
GC-AP-MW-27	2/27/2018 12:11	212.7	mv	Oxidation Reduction Potention
GC-AP-MW-27	2/27/2018 12:11	4.96	pH	pH
GC-AP-MW-27	2/27/2018 12:11	20.42	C	Temperature
GC-AP-MW-27	2/27/2018 12:11	1.86	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-28	2/27/2018 11:09	59.9	uS/cm	Conductivity
GC-AP-MW-28	2/27/2018 11:09	6.39	ft	Depth to Water Detail
GC-AP-MW-28	2/27/2018 11:09	8.12	mg/L	DO
GC-AP-MW-28	2/27/2018 11:09	190	mv	Oxidation Reduction Potention
GC-AP-MW-28	2/27/2018 11:09	4.86	pH	pH
GC-AP-MW-28	2/27/2018 11:09	19.08	C	Temperature
GC-AP-MW-28	2/27/2018 11:09	1.88	NTU	Turbidity
GC-AP-MW-28	2/27/2018 11:14	59.7	uS/cm	Conductivity
GC-AP-MW-28	2/27/2018 11:14	6.39	ft	Depth to Water Detail
GC-AP-MW-28	2/27/2018 11:14	7.99	mg/L	DO
GC-AP-MW-28	2/27/2018 11:14	203	mv	Oxidation Reduction Potention
GC-AP-MW-28	2/27/2018 11:14	4.86	pH	pH
GC-AP-MW-28	2/27/2018 11:14	19.21	C	Temperature
GC-AP-MW-28	2/27/2018 11:14	0.9	NTU	Turbidity
GC-AP-MW-28	2/27/2018 11:19	59.5	uS/cm	Conductivity
GC-AP-MW-28	2/27/2018 11:19	6.39	ft	Depth to Water Detail
GC-AP-MW-28	2/27/2018 11:19	7.92	mg/L	DO
GC-AP-MW-28	2/27/2018 11:19	228.5	mv	Oxidation Reduction Potention
GC-AP-MW-28	2/27/2018 11:19	4.88	pH	pH
GC-AP-MW-28	2/27/2018 11:19	19.31	C	Temperature
GC-AP-MW-28	2/27/2018 11:19	1.03	NTU	Turbidity
GC-AP-MW-28	2/27/2018 11:24	59.5	uS/cm	Conductivity
GC-AP-MW-28	2/27/2018 11:24	6.39	ft	Depth to Water Detail
GC-AP-MW-28	2/27/2018 11:24	7.71	mg/L	DO
GC-AP-MW-28	2/27/2018 11:24	258.3	mv	Oxidation Reduction Potention
GC-AP-MW-28	2/27/2018 11:24	4.91	pH	pH
GC-AP-MW-28	2/27/2018 11:24	19.41	C	Temperature
GC-AP-MW-28	2/27/2018 11:24	2.78	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-29	2/27/2018 10:14	21.3	uS/cm	Conductivity
GC-AP-MW-29	2/27/2018 10:14	4.15	ft	Depth to Water Detail
GC-AP-MW-29	2/27/2018 10:14	8.85	mg/L	DO
GC-AP-MW-29	2/27/2018 10:14	188.9	mv	Oxidation Reduction Potention
GC-AP-MW-29	2/27/2018 10:14	4.88	pH	pH
GC-AP-MW-29	2/27/2018 10:14	18.92	C	Temperature
GC-AP-MW-29	2/27/2018 10:14	1.26	NTU	Turbidity
GC-AP-MW-29	2/27/2018 10:19	21.5	uS/cm	Conductivity
GC-AP-MW-29	2/27/2018 10:19	4.15	ft	Depth to Water Detail
GC-AP-MW-29	2/27/2018 10:19	8.83	mg/L	DO
GC-AP-MW-29	2/27/2018 10:19	190.5	mv	Oxidation Reduction Potention
GC-AP-MW-29	2/27/2018 10:19	4.89	pH	pH
GC-AP-MW-29	2/27/2018 10:19	18.89	C	Temperature
GC-AP-MW-29	2/27/2018 10:19	2.04	NTU	Turbidity
GC-AP-MW-29	2/27/2018 10:24	21.7	uS/cm	Conductivity
GC-AP-MW-29	2/27/2018 10:24	4.15	ft	Depth to Water Detail
GC-AP-MW-29	2/27/2018 10:24	8.73	mg/L	DO
GC-AP-MW-29	2/27/2018 10:24	193.3	mv	Oxidation Reduction Potention
GC-AP-MW-29	2/27/2018 10:24	4.86	pH	pH
GC-AP-MW-29	2/27/2018 10:24	18.79	C	Temperature
GC-AP-MW-29	2/27/2018 10:24	1.73	NTU	Turbidity
GC-AP-MW-29	2/27/2018 10:29	21.5	uS/cm	Conductivity
GC-AP-MW-29	2/27/2018 10:29	4.15	ft	Depth to Water Detail
GC-AP-MW-29	2/27/2018 10:29	8.68	mg/L	DO
GC-AP-MW-29	2/27/2018 10:29	195.8	mv	Oxidation Reduction Potention
GC-AP-MW-29	2/27/2018 10:29	4.87	pH	pH
GC-AP-MW-29	2/27/2018 10:29	18.7	C	Temperature
GC-AP-MW-29	2/27/2018 10:29	1.39	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-30	2/27/2018 9:20	17.9	uS/cm	Conductivity
GC-AP-MW-30	2/27/2018 9:20	6.83	ft	Depth to Water Detail
GC-AP-MW-30	2/27/2018 9:20	8.92	mg/L	DO
GC-AP-MW-30	2/27/2018 9:20	168.5	mv	Oxidation Reduction Potention
GC-AP-MW-30	2/27/2018 9:20	5.7	pH	pH
GC-AP-MW-30	2/27/2018 9:20	18.05	C	Temperature
GC-AP-MW-30	2/27/2018 9:20	2.07	NTU	Turbidity
GC-AP-MW-30	2/27/2018 9:25	21.6	uS/cm	Conductivity
GC-AP-MW-30	2/27/2018 9:25	6.83	ft	Depth to Water Detail
GC-AP-MW-30	2/27/2018 9:25	8.42	mg/L	DO
GC-AP-MW-30	2/27/2018 9:25	165.3	mv	Oxidation Reduction Potention
GC-AP-MW-30	2/27/2018 9:25	5.29	pH	pH
GC-AP-MW-30	2/27/2018 9:25	18.45	C	Temperature
GC-AP-MW-30	2/27/2018 9:25	1.86	NTU	Turbidity
GC-AP-MW-30	2/27/2018 9:30	21.6	uS/cm	Conductivity
GC-AP-MW-30	2/27/2018 9:30	6.83	ft	Depth to Water Detail
GC-AP-MW-30	2/27/2018 9:30	8.22	mg/L	DO
GC-AP-MW-30	2/27/2018 9:30	167.2	mv	Oxidation Reduction Potention
GC-AP-MW-30	2/27/2018 9:30	5.23	pH	pH
GC-AP-MW-30	2/27/2018 9:30	18.66	C	Temperature
GC-AP-MW-30	2/27/2018 9:30	1.23	NTU	Turbidity
GC-AP-MW-30	2/27/2018 9:35	22	uS/cm	Conductivity
GC-AP-MW-30	2/27/2018 9:35	6.83	ft	Depth to Water Detail
GC-AP-MW-30	2/27/2018 9:35	8.17	mg/L	DO
GC-AP-MW-30	2/27/2018 9:35	173.5	mv	Oxidation Reduction Potention
GC-AP-MW-30	2/27/2018 9:35	5.25	pH	pH
GC-AP-MW-30	2/27/2018 9:35	18.72	C	Temperature
GC-AP-MW-30	2/27/2018 9:35	1.37	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-31	2/27/2018 13:59	66.2	uS/cm	Conductivity
GC-AP-MW-31	2/27/2018 13:59	4.92	ft	Depth to Water Detail
GC-AP-MW-31	2/27/2018 13:59	1.42	mg/L	DO
GC-AP-MW-31	2/27/2018 13:59	149.5	mv	Oxidation Reduction Potention
GC-AP-MW-31	2/27/2018 13:59	5.94	pH	pH
GC-AP-MW-31	2/27/2018 13:59	17.7	C	Temperature
GC-AP-MW-31	2/27/2018 13:59	2.65	NTU	Turbidity
GC-AP-MW-31	2/27/2018 14:04	66.5	uS/cm	Conductivity
GC-AP-MW-31	2/27/2018 14:04	4.92	ft	Depth to Water Detail
GC-AP-MW-31	2/27/2018 14:04	1.23	mg/L	DO
GC-AP-MW-31	2/27/2018 14:04	137	mv	Oxidation Reduction Potention
GC-AP-MW-31	2/27/2018 14:04	5.94	pH	pH
GC-AP-MW-31	2/27/2018 14:04	17.64	C	Temperature
GC-AP-MW-31	2/27/2018 14:04	1.8	NTU	Turbidity
GC-AP-MW-31	2/27/2018 14:09	67.7	uS/cm	Conductivity
GC-AP-MW-31	2/27/2018 14:09	4.92	ft	Depth to Water Detail
GC-AP-MW-31	2/27/2018 14:09	1.09	mg/L	DO
GC-AP-MW-31	2/27/2018 14:09	125.5	mv	Oxidation Reduction Potention
GC-AP-MW-31	2/27/2018 14:09	5.93	pH	pH
GC-AP-MW-31	2/27/2018 14:09	17.63	C	Temperature
GC-AP-MW-31	2/27/2018 14:09	2.5	NTU	Turbidity
GC-AP-MW-31	2/27/2018 14:14	73.4	uS/cm	Conductivity
GC-AP-MW-31	2/27/2018 14:14	4.92	ft	Depth to Water Detail
GC-AP-MW-31	2/27/2018 14:14	0.98	mg/L	DO
GC-AP-MW-31	2/27/2018 14:14	119.6	mv	Oxidation Reduction Potention
GC-AP-MW-31	2/27/2018 14:14	5.97	pH	pH
GC-AP-MW-31	2/27/2018 14:14	17.61	C	Temperature
GC-AP-MW-31	2/27/2018 14:14	1.82	NTU	Turbidity
GC-AP-MW-31	2/27/2018 14:19	72.8	uS/cm	Conductivity
GC-AP-MW-31	2/27/2018 14:19	4.92	ft	Depth to Water Detail
GC-AP-MW-31	2/27/2018 14:19	0.98	mg/L	DO
GC-AP-MW-31	2/27/2018 14:19	114	mv	Oxidation Reduction Potention
GC-AP-MW-31	2/27/2018 14:19	5.96	pH	pH
GC-AP-MW-31	2/27/2018 14:19	17.59	C	Temperature
GC-AP-MW-31	2/27/2018 14:19	1.7	NTU	Turbidity
GC-AP-MW-31	2/27/2018 14:24	75.5	uS/cm	Conductivity
GC-AP-MW-31	2/27/2018 14:24	4.92	ft	Depth to Water Detail
GC-AP-MW-31	2/27/2018 14:24	0.95	mg/L	DO
GC-AP-MW-31	2/27/2018 14:24	109.5	mv	Oxidation Reduction Potention
GC-AP-MW-31	2/27/2018 14:24	5.99	pH	pH
GC-AP-MW-31	2/27/2018 14:24	17.59	C	Temperature
GC-AP-MW-31	2/27/2018 14:24	1.34	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-32	2/27/2018 15:34	74.4	uS/cm	Conductivity
GC-AP-MW-32	2/27/2018 15:34	18.46	ft	Depth to Water Detail
GC-AP-MW-32	2/27/2018 15:34	5.49	mg/L	DO
GC-AP-MW-32	2/27/2018 15:34	72	mv	Oxidation Reduction Potention
GC-AP-MW-32	2/27/2018 15:34	6.06	pH	pH
GC-AP-MW-32	2/27/2018 15:34	19.8	C	Temperature
GC-AP-MW-32	2/27/2018 15:34	1.12	NTU	Turbidity
GC-AP-MW-32	2/27/2018 15:39	78.2	uS/cm	Conductivity
GC-AP-MW-32	2/27/2018 15:39	18.46	ft	Depth to Water Detail
GC-AP-MW-32	2/27/2018 15:39	4.99	mg/L	DO
GC-AP-MW-32	2/27/2018 15:39	68.9	mv	Oxidation Reduction Potention
GC-AP-MW-32	2/27/2018 15:39	6.08	pH	pH
GC-AP-MW-32	2/27/2018 15:39	19.73	C	Temperature
GC-AP-MW-32	2/27/2018 15:39	1.12	NTU	Turbidity
GC-AP-MW-32	2/27/2018 15:44	78	uS/cm	Conductivity
GC-AP-MW-32	2/27/2018 15:44	18.46	ft	Depth to Water Detail
GC-AP-MW-32	2/27/2018 15:44	5.09	mg/L	DO
GC-AP-MW-32	2/27/2018 15:44	66.8	mv	Oxidation Reduction Potention
GC-AP-MW-32	2/27/2018 15:44	6.1	pH	pH
GC-AP-MW-32	2/27/2018 15:44	19.72	C	Temperature
GC-AP-MW-32	2/27/2018 15:44	0.99	NTU	Turbidity
GC-AP-MW-32	2/27/2018 15:54	79	uS/cm	Conductivity
GC-AP-MW-32	2/27/2018 15:54	18.46	ft	Depth to Water Detail
GC-AP-MW-32	2/27/2018 15:54	4.92	mg/L	DO
GC-AP-MW-32	2/27/2018 15:54	65.4	mv	Oxidation Reduction Potention
GC-AP-MW-32	2/27/2018 15:54	6.09	pH	pH
GC-AP-MW-32	2/27/2018 15:54	19.24	C	Temperature
GC-AP-MW-32	2/27/2018 15:54	0.66	NTU	Turbidity
GC-AP-MW-32	2/27/2018 15:59	79.8	uS/cm	Conductivity
GC-AP-MW-32	2/27/2018 15:59	18.46	ft	Depth to Water Detail
GC-AP-MW-32	2/27/2018 15:59	4.93	mg/L	DO
GC-AP-MW-32	2/27/2018 15:59	64.9	mv	Oxidation Reduction Potention
GC-AP-MW-32	2/27/2018 15:59	6.09	pH	pH
GC-AP-MW-32	2/27/2018 15:59	19.49	C	Temperature
GC-AP-MW-32	2/27/2018 15:59	0.73	NTU	Turbidity
GC-AP-MW-32	2/27/2018 16:04	79.4	uS/cm	Conductivity
GC-AP-MW-32	2/27/2018 16:04	18.46	ft	Depth to Water Detail
GC-AP-MW-32	2/27/2018 16:04	4.9	mg/L	DO
GC-AP-MW-32	2/27/2018 16:04	64.9	mv	Oxidation Reduction Potention
GC-AP-MW-32	2/27/2018 16:04	6.1	pH	pH
GC-AP-MW-32	2/27/2018 16:04	19.61	C	Temperature
GC-AP-MW-32	2/27/2018 16:04	0.64	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-33	2/27/2018 14:53	93.6	uS/cm	Conductivity
GC-AP-MW-33	2/27/2018 14:53	21.38	ft	Depth to Water Detail
GC-AP-MW-33	2/27/2018 14:53	6.21	mg/L	DO
GC-AP-MW-33	2/27/2018 14:53	169.3	mv	Oxidation Reduction Potention
GC-AP-MW-33	2/27/2018 14:53	4.69	pH	pH
GC-AP-MW-33	2/27/2018 14:53	19.33	C	Temperature
GC-AP-MW-33	2/27/2018 14:53	1.58	NTU	Turbidity
GC-AP-MW-33	2/27/2018 14:58	95.4	uS/cm	Conductivity
GC-AP-MW-33	2/27/2018 14:58	21.38	ft	Depth to Water Detail
GC-AP-MW-33	2/27/2018 14:58	6.16	mg/L	DO
GC-AP-MW-33	2/27/2018 14:58	173.8	mv	Oxidation Reduction Potention
GC-AP-MW-33	2/27/2018 14:58	4.68	pH	pH
GC-AP-MW-33	2/27/2018 14:58	18.96	C	Temperature
GC-AP-MW-33	2/27/2018 14:58	1.09	NTU	Turbidity
GC-AP-MW-33	2/27/2018 15:03	95.8	uS/cm	Conductivity
GC-AP-MW-33	2/27/2018 15:03	21.38	ft	Depth to Water Detail
GC-AP-MW-33	2/27/2018 15:03	6.11	mg/L	DO
GC-AP-MW-33	2/27/2018 15:03	173.4	mv	Oxidation Reduction Potention
GC-AP-MW-33	2/27/2018 15:03	4.7	pH	pH
GC-AP-MW-33	2/27/2018 15:03	18.87	C	Temperature
GC-AP-MW-33	2/27/2018 15:03	1.34	NTU	Turbidity
GC-AP-MW-33	2/27/2018 15:08	94.1	uS/cm	Conductivity
GC-AP-MW-33	2/27/2018 15:08	21.38	ft	Depth to Water Detail
GC-AP-MW-33	2/27/2018 15:08	6.19	mg/L	DO
GC-AP-MW-33	2/27/2018 15:08	171.2	mv	Oxidation Reduction Potention
GC-AP-MW-33	2/27/2018 15:08	4.69	pH	pH
GC-AP-MW-33	2/27/2018 15:08	18.83	C	Temperature
GC-AP-MW-33	2/27/2018 15:08	1.18	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-1	6/4/2018 12:42	1643.5	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 12:42	16.44	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 12:42	3.07	mg/L	DO
GC-AP-MW-1	6/4/2018 12:42	-17.9	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 12:42	5.92	pH	pH
GC-AP-MW-1	6/4/2018 12:42	19.81	C	Temperature
GC-AP-MW-1	6/4/2018 12:42	2.74	NTU	Turbidity
GC-AP-MW-1	6/4/2018 12:47	1586.8	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 12:47	16.45	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 12:47	2.89	mg/L	DO
GC-AP-MW-1	6/4/2018 12:47	-12.8	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 12:47	5.91	pH	pH
GC-AP-MW-1	6/4/2018 12:47	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 12:47	1.18	NTU	Turbidity
GC-AP-MW-1	6/4/2018 12:52	1682.2	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 12:52	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 12:52	2.87	mg/L	DO
GC-AP-MW-1	6/4/2018 12:52	-10.8	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 12:52	5.91	pH	pH
GC-AP-MW-1	6/4/2018 12:52	19.68	C	Temperature
GC-AP-MW-1	6/4/2018 12:52	1.17	NTU	Turbidity
GC-AP-MW-1	6/4/2018 12:57	1497.6	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 12:57	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 12:57	2.84	mg/L	DO
GC-AP-MW-1	6/4/2018 12:57	-8.8	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 12:57	5.91	pH	pH
GC-AP-MW-1	6/4/2018 12:57	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 12:57	0.81	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:02	1633.5	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:02	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:02	2.82	mg/L	DO
GC-AP-MW-1	6/4/2018 13:02	-6	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:02	5.91	pH	pH
GC-AP-MW-1	6/4/2018 13:02	19.8	C	Temperature
GC-AP-MW-1	6/4/2018 13:02	0.81	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:07	1536.5	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:07	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:07	2.74	mg/L	DO
GC-AP-MW-1	6/4/2018 13:07	-4.5	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:07	5.92	pH	pH
GC-AP-MW-1	6/4/2018 13:07	19.79	C	Temperature
GC-AP-MW-1	6/4/2018 13:07	0.56	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:12	1670.5	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:12	16.46	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-1	6/4/2018 13:12	2.65	mg/L	DO
GC-AP-MW-1	6/4/2018 13:12	-2.6	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:12	5.91	pH	pH
GC-AP-MW-1	6/4/2018 13:12	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 13:12	0.43	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:17	1542.5	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:17	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:17	2.74	mg/L	DO
GC-AP-MW-1	6/4/2018 13:17	-1.1	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:17	5.91	pH	pH
GC-AP-MW-1	6/4/2018 13:17	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 13:17	0.43	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:22	1643.7	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:22	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:22	2.69	mg/L	DO
GC-AP-MW-1	6/4/2018 13:22	-0.2	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:22	5.91	pH	pH
GC-AP-MW-1	6/4/2018 13:22	19.75	C	Temperature
GC-AP-MW-1	6/4/2018 13:22	0.49	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:27	1601.7	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:27	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:27	2.34	mg/L	DO
GC-AP-MW-1	6/4/2018 13:27	2.4	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:27	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:27	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 13:27	0.41	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:33	1663.5	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:33	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:33	2.3	mg/L	DO
GC-AP-MW-1	6/4/2018 13:33	3.3	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:33	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:33	19.7	C	Temperature
GC-AP-MW-1	6/4/2018 13:33	0.49	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:38	1533.8	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:38	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:38	2.24	mg/L	DO
GC-AP-MW-1	6/4/2018 13:38	3.3	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:38	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:38	19.72	C	Temperature
GC-AP-MW-1	6/4/2018 13:38	0.48	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:43	1749.3	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:43	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:43	2.2	mg/L	DO
GC-AP-MW-1	6/4/2018 13:43	4.9	mv	Oxidation Reduction Potential

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-1	6/4/2018 13:43	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:43	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 13:43	0.5	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:48	1583.2	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:48	16.46	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:48	2.52	mg/L	DO
GC-AP-MW-1	6/4/2018 13:48	5.6	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:48	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:48	19.77	C	Temperature
GC-AP-MW-1	6/4/2018 13:48	0.44	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:53	1576	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:53	16.44	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:53	2.58	mg/L	DO
GC-AP-MW-1	6/4/2018 13:53	5.4	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:53	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:53	19.88	C	Temperature
GC-AP-MW-1	6/4/2018 13:53	0.5	NTU	Turbidity
GC-AP-MW-1	6/4/2018 13:58	1639.2	uS/cm	Conductivity
GC-AP-MW-1	6/4/2018 13:58	16.44	ft	Depth to Water Detail
GC-AP-MW-1	6/4/2018 13:58	2.57	mg/L	DO
GC-AP-MW-1	6/4/2018 13:58	6.4	mv	Oxidation Reduction Potential
GC-AP-MW-1	6/4/2018 13:58	5.89	pH	pH
GC-AP-MW-1	6/4/2018 13:58	19.87	C	Temperature
GC-AP-MW-1	6/4/2018 13:58	0.48	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-2	6/4/2018 14:38	777	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 14:38	7.71	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 14:38	2.08	mg/L	DO
GC-AP-MW-2	6/4/2018 14:38	-26.2	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 14:38	6.09	pH	pH
GC-AP-MW-2	6/4/2018 14:38	21.64	C	Temperature
GC-AP-MW-2	6/4/2018 14:38	1.56	NTU	Turbidity
GC-AP-MW-2	6/4/2018 14:43	725.1	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 14:43	7.74	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 14:43	2.45	mg/L	DO
GC-AP-MW-2	6/4/2018 14:43	-19.9	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 14:43	6.08	pH	pH
GC-AP-MW-2	6/4/2018 14:43	21.64	C	Temperature
GC-AP-MW-2	6/4/2018 14:43	1.19	NTU	Turbidity
GC-AP-MW-2	6/4/2018 14:48	747.1	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 14:48	7.74	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 14:48	1.66	mg/L	DO
GC-AP-MW-2	6/4/2018 14:48	-19.2	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 14:48	6.07	pH	pH
GC-AP-MW-2	6/4/2018 14:48	21.55	C	Temperature
GC-AP-MW-2	6/4/2018 14:48	0.83	NTU	Turbidity
GC-AP-MW-2	6/4/2018 14:54	735.4	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 14:54	7.74	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 14:54	3.09	mg/L	DO
GC-AP-MW-2	6/4/2018 14:54	-18.4	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 14:54	6.08	pH	pH
GC-AP-MW-2	6/4/2018 14:54	21.55	C	Temperature
GC-AP-MW-2	6/4/2018 14:54	1.27	NTU	Turbidity
GC-AP-MW-2	6/4/2018 14:59	766.6	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 14:59	7.75	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 14:59	1.84	mg/L	DO
GC-AP-MW-2	6/4/2018 14:59	-20.7	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 14:59	6.07	pH	pH
GC-AP-MW-2	6/4/2018 14:59	21.52	C	Temperature
GC-AP-MW-2	6/4/2018 14:59	1.31	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:04	726.1	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:04	7.75	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:04	2.43	mg/L	DO
GC-AP-MW-2	6/4/2018 15:04	-21.2	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:04	6.08	pH	pH
GC-AP-MW-2	6/4/2018 15:04	21.51	C	Temperature
GC-AP-MW-2	6/4/2018 15:04	0.98	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:09	743.7	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:09	7.75	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-2	6/4/2018 15:09	1.29	mg/L	DO
GC-AP-MW-2	6/4/2018 15:09	-19.1	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:09	6.07	pH	pH
GC-AP-MW-2	6/4/2018 15:09	21.49	C	Temperature
GC-AP-MW-2	6/4/2018 15:09	0.86	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:14	738.5	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:14	7.75	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:14	1.08	mg/L	DO
GC-AP-MW-2	6/4/2018 15:14	-20.1	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:14	6.07	pH	pH
GC-AP-MW-2	6/4/2018 15:14	21.65	C	Temperature
GC-AP-MW-2	6/4/2018 15:14	0.82	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:19	766.3	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:19	7.75	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:19	0.8	mg/L	DO
GC-AP-MW-2	6/4/2018 15:19	-23.6	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:19	6.07	pH	pH
GC-AP-MW-2	6/4/2018 15:19	21.65	C	Temperature
GC-AP-MW-2	6/4/2018 15:19	0.67	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:24	789.9	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:24	7.76	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:24	1.64	mg/L	DO
GC-AP-MW-2	6/4/2018 15:24	-21.7	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:24	6.06	pH	pH
GC-AP-MW-2	6/4/2018 15:24	21.58	C	Temperature
GC-AP-MW-2	6/4/2018 15:24	1.13	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:29	717.7	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:29	7.77	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:29	1.67	mg/L	DO
GC-AP-MW-2	6/4/2018 15:29	-17.4	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:29	6.07	pH	pH
GC-AP-MW-2	6/4/2018 15:29	21.55	C	Temperature
GC-AP-MW-2	6/4/2018 15:29	0.9	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:34	703.9	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:34	7.77	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:34	1.71	mg/L	DO
GC-AP-MW-2	6/4/2018 15:34	-17.4	mv	Oxidation Reduction Potential
GC-AP-MW-2	6/4/2018 15:34	6.09	pH	pH
GC-AP-MW-2	6/4/2018 15:34	21.73	C	Temperature
GC-AP-MW-2	6/4/2018 15:34	0.61	NTU	Turbidity
GC-AP-MW-2	6/4/2018 15:39	736	uS/cm	Conductivity
GC-AP-MW-2	6/4/2018 15:39	7.78	ft	Depth to Water Detail
GC-AP-MW-2	6/4/2018 15:39	1.59	mg/L	DO
GC-AP-MW-2	6/4/2018 15:39	-20.9	mv	Oxidation Reduction Potential

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-2	6/4/2018 15:39	6.07	pH	pH
GC-AP-MW-2	6/4/2018 15:39	21.68	C	Temperature
GC-AP-MW-2	6/4/2018 15:39	0.69	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-3	6/4/2018 16:25	658.2	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:25	8.14	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 16:25	2.41	mg/L	DO
GC-AP-MW-3	6/4/2018 16:25	-56.3	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:25	6.45	pH	pH
GC-AP-MW-3	6/4/2018 16:25	20.71	C	Temperature
GC-AP-MW-3	6/4/2018 16:25	1.62	NTU	Turbidity
GC-AP-MW-3	6/4/2018 16:30	603.3	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:30	8.18	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 16:30	2.32	mg/L	DO
GC-AP-MW-3	6/4/2018 16:30	-53.6	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:30	6.44	pH	pH
GC-AP-MW-3	6/4/2018 16:30	20.7	C	Temperature
GC-AP-MW-3	6/4/2018 16:30	1.18	NTU	Turbidity
GC-AP-MW-3	6/4/2018 16:35	587.6	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:35	8.24	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 16:35	2.52	mg/L	DO
GC-AP-MW-3	6/4/2018 16:35	-51.7	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:35	6.44	pH	pH
GC-AP-MW-3	6/4/2018 16:35	20.66	C	Temperature
GC-AP-MW-3	6/4/2018 16:35	0.96	NTU	Turbidity
GC-AP-MW-3	6/4/2018 16:40	622.5	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:40	8.26	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 16:40	2.33	mg/L	DO
GC-AP-MW-3	6/4/2018 16:40	-50	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:40	6.43	pH	pH
GC-AP-MW-3	6/4/2018 16:40	20.62	C	Temperature
GC-AP-MW-3	6/4/2018 16:40	1.01	NTU	Turbidity
GC-AP-MW-3	6/4/2018 16:45	602.7	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:45	8.28	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 16:45	2.26	mg/L	DO
GC-AP-MW-3	6/4/2018 16:45	-49.4	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:45	6.42	pH	pH
GC-AP-MW-3	6/4/2018 16:45	20.57	C	Temperature
GC-AP-MW-3	6/4/2018 16:45	0.84	NTU	Turbidity
GC-AP-MW-3	6/4/2018 16:50	637.2	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:50	8.29	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 16:50	2.24	mg/L	DO
GC-AP-MW-3	6/4/2018 16:50	-47	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:50	6.41	pH	pH
GC-AP-MW-3	6/4/2018 16:50	20.5	C	Temperature
GC-AP-MW-3	6/4/2018 16:50	0.83	NTU	Turbidity
GC-AP-MW-3	6/4/2018 16:55	625.3	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 16:55	8.3	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-3	6/4/2018 16:55	2.3	mg/L	DO
GC-AP-MW-3	6/4/2018 16:55	-47.1	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 16:55	6.41	pH	pH
GC-AP-MW-3	6/4/2018 16:55	20.51	C	Temperature
GC-AP-MW-3	6/4/2018 16:55	0.74	NTU	Turbidity
GC-AP-MW-3	6/4/2018 17:01	605	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 17:01	8.31	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 17:01	2.35	mg/L	DO
GC-AP-MW-3	6/4/2018 17:01	-46.1	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 17:01	6.4	pH	pH
GC-AP-MW-3	6/4/2018 17:01	20.57	C	Temperature
GC-AP-MW-3	6/4/2018 17:01	0.73	NTU	Turbidity
GC-AP-MW-3	6/4/2018 17:06	630.1	uS/cm	Conductivity
GC-AP-MW-3	6/4/2018 17:06	8.32	ft	Depth to Water Detail
GC-AP-MW-3	6/4/2018 17:06	2.16	mg/L	DO
GC-AP-MW-3	6/4/2018 17:06	-45.6	mv	Oxidation Reduction Potential
GC-AP-MW-3	6/4/2018 17:06	6.4	pH	pH
GC-AP-MW-3	6/4/2018 17:06	20.56	C	Temperature
GC-AP-MW-3	6/4/2018 17:06	0.59	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-5	6/5/2018 9:26	604.1	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:26	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 9:26	3.38	mg/L	DO
GC-AP-MW-5	6/5/2018 9:26	-93.1	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:26	6.6	pH	pH
GC-AP-MW-5	6/5/2018 9:26	20.44	C	Temperature
GC-AP-MW-5	6/5/2018 9:26	1.18	NTU	Turbidity
GC-AP-MW-5	6/5/2018 9:31	579.4	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:31	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 9:31	3.15	mg/L	DO
GC-AP-MW-5	6/5/2018 9:31	-90.8	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:31	6.62	pH	pH
GC-AP-MW-5	6/5/2018 9:31	20.46	C	Temperature
GC-AP-MW-5	6/5/2018 9:31	0.92	NTU	Turbidity
GC-AP-MW-5	6/5/2018 9:36	600.5	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:36	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 9:36	2.1	mg/L	DO
GC-AP-MW-5	6/5/2018 9:36	-88.1	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:36	6.61	pH	pH
GC-AP-MW-5	6/5/2018 9:36	20.44	C	Temperature
GC-AP-MW-5	6/5/2018 9:36	0.66	NTU	Turbidity
GC-AP-MW-5	6/5/2018 9:41	593.2	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:41	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 9:41	4.34	mg/L	DO
GC-AP-MW-5	6/5/2018 9:41	-86.3	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:41	6.63	pH	pH
GC-AP-MW-5	6/5/2018 9:41	20.45	C	Temperature
GC-AP-MW-5	6/5/2018 9:41	0.44	NTU	Turbidity
GC-AP-MW-5	6/5/2018 9:46	598	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:46	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 9:46	2.86	mg/L	DO
GC-AP-MW-5	6/5/2018 9:46	-87.3	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:46	6.63	pH	pH
GC-AP-MW-5	6/5/2018 9:46	20.41	C	Temperature
GC-AP-MW-5	6/5/2018 9:46	0.59	NTU	Turbidity
GC-AP-MW-5	6/5/2018 9:51	601.2	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:51	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 9:51	4.61	mg/L	DO
GC-AP-MW-5	6/5/2018 9:51	-88	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:51	6.64	pH	pH
GC-AP-MW-5	6/5/2018 9:51	20.4	C	Temperature
GC-AP-MW-5	6/5/2018 9:51	0.32	NTU	Turbidity
GC-AP-MW-5	6/5/2018 9:57	612.4	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 9:57	9.28	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-5	6/5/2018 9:57	1.88	mg/L	DO
GC-AP-MW-5	6/5/2018 9:57	-85	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 9:57	6.63	pH	pH
GC-AP-MW-5	6/5/2018 9:57	20.43	C	Temperature
GC-AP-MW-5	6/5/2018 9:57	0.35	NTU	Turbidity
GC-AP-MW-5	6/5/2018 10:02	607.1	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 10:02	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 10:02	4.96	mg/L	DO
GC-AP-MW-5	6/5/2018 10:02	-85.1	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 10:02	6.63	pH	pH
GC-AP-MW-5	6/5/2018 10:02	20.39	C	Temperature
GC-AP-MW-5	6/5/2018 10:02	0.33	NTU	Turbidity
GC-AP-MW-5	6/5/2018 10:07	599.8	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 10:07	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 10:07	1.74	mg/L	DO
GC-AP-MW-5	6/5/2018 10:07	-84.3	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 10:07	6.63	pH	pH
GC-AP-MW-5	6/5/2018 10:07	20.48	C	Temperature
GC-AP-MW-5	6/5/2018 10:07	0.29	NTU	Turbidity
GC-AP-MW-5	6/5/2018 10:12	599.2	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 10:12	9.28	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 10:12	2.53	mg/L	DO
GC-AP-MW-5	6/5/2018 10:12	-84.5	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 10:12	6.64	pH	pH
GC-AP-MW-5	6/5/2018 10:12	20.48	C	Temperature
GC-AP-MW-5	6/5/2018 10:12	0.47	NTU	Turbidity
GC-AP-MW-5	6/5/2018 10:17	609.7	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 10:17	9.29	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 10:17	3.28	mg/L	DO
GC-AP-MW-5	6/5/2018 10:17	-84	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 10:17	6.63	pH	pH
GC-AP-MW-5	6/5/2018 10:17	20.39	C	Temperature
GC-AP-MW-5	6/5/2018 10:17	0.34	NTU	Turbidity
GC-AP-MW-5	6/5/2018 10:22	604.2	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 10:22	9.29	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 10:22	3.42	mg/L	DO
GC-AP-MW-5	6/5/2018 10:22	-84.3	mv	Oxidation Reduction Potential
GC-AP-MW-5	6/5/2018 10:22	6.64	pH	pH
GC-AP-MW-5	6/5/2018 10:22	20.39	C	Temperature
GC-AP-MW-5	6/5/2018 10:22	0.53	NTU	Turbidity
GC-AP-MW-5	6/5/2018 10:27	606.6	uS/cm	Conductivity
GC-AP-MW-5	6/5/2018 10:27	9.29	ft	Depth to Water Detail
GC-AP-MW-5	6/5/2018 10:27	3.19	mg/L	DO
GC-AP-MW-5	6/5/2018 10:27	-83.6	mv	Oxidation Reduction Potential

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-5	6/5/2018 10:27	6.63	pH	pH
GC-AP-MW-5	6/5/2018 10:27	20.49	C	Temperature
GC-AP-MW-5	6/5/2018 10:27	0.35	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-6	6/5/2018 11:10	911	uS/cm	Conductivity
GC-AP-MW-6	6/5/2018 11:10	4.95	ft	Depth to Water Detail
GC-AP-MW-6	6/5/2018 11:10	1.93	mg/L	DO
GC-AP-MW-6	6/5/2018 11:10	81.3	mv	Oxidation Reduction Potential
GC-AP-MW-6	6/5/2018 11:10	6.52	pH	pH
GC-AP-MW-6	6/5/2018 11:10	20.93	C	Temperature
GC-AP-MW-6	6/5/2018 11:10	0.7	NTU	Turbidity
GC-AP-MW-6	6/5/2018 11:15	933.8	uS/cm	Conductivity
GC-AP-MW-6	6/5/2018 11:15	4.95	ft	Depth to Water Detail
GC-AP-MW-6	6/5/2018 11:15	2.22	mg/L	DO
GC-AP-MW-6	6/5/2018 11:15	80.1	mv	Oxidation Reduction Potential
GC-AP-MW-6	6/5/2018 11:15	6.51	pH	pH
GC-AP-MW-6	6/5/2018 11:15	21.15	C	Temperature
GC-AP-MW-6	6/5/2018 11:15	0.32	NTU	Turbidity
GC-AP-MW-6	6/5/2018 11:20	942.5	uS/cm	Conductivity
GC-AP-MW-6	6/5/2018 11:20	4.96	ft	Depth to Water Detail
GC-AP-MW-6	6/5/2018 11:20	1.54	mg/L	DO
GC-AP-MW-6	6/5/2018 11:20	81.1	mv	Oxidation Reduction Potential
GC-AP-MW-6	6/5/2018 11:20	6.5	pH	pH
GC-AP-MW-6	6/5/2018 11:20	20.87	C	Temperature
GC-AP-MW-6	6/5/2018 11:20	0.45	NTU	Turbidity
GC-AP-MW-6	6/5/2018 11:25	948.2	uS/cm	Conductivity
GC-AP-MW-6	6/5/2018 11:25	4.96	ft	Depth to Water Detail
GC-AP-MW-6	6/5/2018 11:25	1.59	mg/L	DO
GC-AP-MW-6	6/5/2018 11:25	79.8	mv	Oxidation Reduction Potential
GC-AP-MW-6	6/5/2018 11:25	6.49	pH	pH
GC-AP-MW-6	6/5/2018 11:25	20.71	C	Temperature
GC-AP-MW-6	6/5/2018 11:25	0.34	NTU	Turbidity
GC-AP-MW-6	6/5/2018 11:30	949.7	uS/cm	Conductivity
GC-AP-MW-6	6/5/2018 11:30	4.96	ft	Depth to Water Detail
GC-AP-MW-6	6/5/2018 11:30	1.54	mg/L	DO
GC-AP-MW-6	6/5/2018 11:30	63.9	mv	Oxidation Reduction Potential
GC-AP-MW-6	6/5/2018 11:30	6.49	pH	pH
GC-AP-MW-6	6/5/2018 11:30	20.84	C	Temperature
GC-AP-MW-6	6/5/2018 11:30	0.27	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-7	6/5/2018 12:21	1383.6	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:21	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:21	4.39	mg/L	DO
GC-AP-MW-7	6/5/2018 12:21	67.8	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:21	6.39	pH	pH
GC-AP-MW-7	6/5/2018 12:21	20.48	C	Temperature
GC-AP-MW-7	6/5/2018 12:21	0.26	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:26	1454.3	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:26	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:26	3.39	mg/L	DO
GC-AP-MW-7	6/5/2018 12:26	79.6	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:26	6.36	pH	pH
GC-AP-MW-7	6/5/2018 12:26	20.13	C	Temperature
GC-AP-MW-7	6/5/2018 12:26	0.25	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:31	1485.7	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:31	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:31	3.15	mg/L	DO
GC-AP-MW-7	6/5/2018 12:31	76.5	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:31	6.36	pH	pH
GC-AP-MW-7	6/5/2018 12:31	20.08	C	Temperature
GC-AP-MW-7	6/5/2018 12:31	0.23	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:36	1481.5	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:36	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:36	4.11	mg/L	DO
GC-AP-MW-7	6/5/2018 12:36	73.5	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:36	6.36	pH	pH
GC-AP-MW-7	6/5/2018 12:36	20.03	C	Temperature
GC-AP-MW-7	6/5/2018 12:36	0.24	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:41	1479.3	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:41	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:41	3.91	mg/L	DO
GC-AP-MW-7	6/5/2018 12:41	72	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:41	6.36	pH	pH
GC-AP-MW-7	6/5/2018 12:41	20.2	C	Temperature
GC-AP-MW-7	6/5/2018 12:41	0.21	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:46	1482.2	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:46	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:46	3.48	mg/L	DO
GC-AP-MW-7	6/5/2018 12:46	71.2	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:46	6.36	pH	pH
GC-AP-MW-7	6/5/2018 12:46	20.05	C	Temperature
GC-AP-MW-7	6/5/2018 12:46	0.24	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:51	1492	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:51	7.68	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-7	6/5/2018 12:51	2.96	mg/L	DO
GC-AP-MW-7	6/5/2018 12:51	69.9	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:51	6.37	pH	pH
GC-AP-MW-7	6/5/2018 12:51	20.12	C	Temperature
GC-AP-MW-7	6/5/2018 12:51	0.3	NTU	Turbidity
GC-AP-MW-7	6/5/2018 12:56	1475	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 12:56	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 12:56	2.75	mg/L	DO
GC-AP-MW-7	6/5/2018 12:56	69.7	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 12:56	6.36	pH	pH
GC-AP-MW-7	6/5/2018 12:56	20.08	C	Temperature
GC-AP-MW-7	6/5/2018 12:56	0.25	NTU	Turbidity
GC-AP-MW-7	6/5/2018 13:01	1501.6	uS/cm	Conductivity
GC-AP-MW-7	6/5/2018 13:01	7.68	ft	Depth to Water Detail
GC-AP-MW-7	6/5/2018 13:01	2.77	mg/L	DO
GC-AP-MW-7	6/5/2018 13:01	68.7	mv	Oxidation Reduction Potential
GC-AP-MW-7	6/5/2018 13:01	6.36	pH	pH
GC-AP-MW-7	6/5/2018 13:01	20.09	C	Temperature
GC-AP-MW-7	6/5/2018 13:01	0.79	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-8	6/5/2018 13:54	803.9	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 13:54	7.95	ft	Depth to Water Detail
GC-AP-MW-8	6/5/2018 13:54	0.98	mg/L	DO
GC-AP-MW-8	6/5/2018 13:54	61	mv	Oxidation Reduction Potential
GC-AP-MW-8	6/5/2018 13:54	6.28	pH	pH
GC-AP-MW-8	6/5/2018 13:54	20.19	C	Temperature
GC-AP-MW-8	6/5/2018 13:54	0.3	NTU	Turbidity
GC-AP-MW-8	6/5/2018 13:59	808	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 13:59	7.95	ft	Depth to Water Detail
GC-AP-MW-8	6/5/2018 13:59	0.84	mg/L	DO
GC-AP-MW-8	6/5/2018 13:59	59.6	mv	Oxidation Reduction Potential
GC-AP-MW-8	6/5/2018 13:59	6.29	pH	pH
GC-AP-MW-8	6/5/2018 13:59	20.04	C	Temperature
GC-AP-MW-8	6/5/2018 13:59	0.28	NTU	Turbidity
GC-AP-MW-8	6/5/2018 14:04	824.5	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 14:04	7.95	ft	Depth to Water Detail
GC-AP-MW-8	6/5/2018 14:04	1.16	mg/L	DO
GC-AP-MW-8	6/5/2018 14:04	58.4	mv	Oxidation Reduction Potential
GC-AP-MW-8	6/5/2018 14:04	6.3	pH	pH
GC-AP-MW-8	6/5/2018 14:04	20.03	C	Temperature
GC-AP-MW-8	6/5/2018 14:04	0.27	NTU	Turbidity
GC-AP-MW-8	6/5/2018 14:09	821.4	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 14:09	7.95	ft	Depth to Water Detail
GC-AP-MW-8	6/5/2018 14:09	1.02	mg/L	DO
GC-AP-MW-8	6/5/2018 14:09	59.1	mv	Oxidation Reduction Potential
GC-AP-MW-8	6/5/2018 14:09	6.3	pH	pH
GC-AP-MW-8	6/5/2018 14:09	20.03	C	Temperature
GC-AP-MW-8	6/5/2018 14:09	0.26	NTU	Turbidity
GC-AP-MW-8	6/5/2018 14:14	815	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 14:14	7.95	ft	Depth to Water Detail
GC-AP-MW-8	6/5/2018 14:14	0.91	mg/L	DO
GC-AP-MW-8	6/5/2018 14:14	58.8	mv	Oxidation Reduction Potential
GC-AP-MW-8	6/5/2018 14:14	6.3	pH	pH
GC-AP-MW-8	6/5/2018 14:14	20	C	Temperature
GC-AP-MW-8	6/5/2018 14:14	0.24	NTU	Turbidity
GC-AP-MW-8	6/5/2018 14:19	818.9	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 14:19	7.95	ft	Depth to Water Detail
GC-AP-MW-8	6/5/2018 14:19	0.72	mg/L	DO
GC-AP-MW-8	6/5/2018 14:19	59.6	mv	Oxidation Reduction Potential
GC-AP-MW-8	6/5/2018 14:19	6.3	pH	pH
GC-AP-MW-8	6/5/2018 14:19	19.9	C	Temperature
GC-AP-MW-8	6/5/2018 14:19	0.24	NTU	Turbidity
GC-AP-MW-8	6/5/2018 14:24	820	uS/cm	Conductivity
GC-AP-MW-8	6/5/2018 14:24	7.95	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-8	6/5/2018 14:24	0.91	mg/L	DO
GC-AP-MW-8	6/5/2018 14:24	58.6	mv	Oxidation Reduction Potention
GC-AP-MW-8	6/5/2018 14:24	6.3	pH	pH
GC-AP-MW-8	6/5/2018 14:24	19.9	C	Temperature
GC-AP-MW-8	6/5/2018 14:24	0.23	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-9	6/5/2018 15:17	767.5	uS/cm	Conductivity
GC-AP-MW-9	6/5/2018 15:17	5	ft	Depth to Water Detail
GC-AP-MW-9	6/5/2018 15:17	0.63	mg/L	DO
GC-AP-MW-9	6/5/2018 15:17	-39.5	mv	Oxidation Reduction Potential
GC-AP-MW-9	6/5/2018 15:17	6.46	pH	pH
GC-AP-MW-9	6/5/2018 15:17	20.56	C	Temperature
GC-AP-MW-9	6/5/2018 15:17	0.3	NTU	Turbidity
GC-AP-MW-9	6/5/2018 15:22	771.6	uS/cm	Conductivity
GC-AP-MW-9	6/5/2018 15:22	5	ft	Depth to Water Detail
GC-AP-MW-9	6/5/2018 15:22	0.49	mg/L	DO
GC-AP-MW-9	6/5/2018 15:22	-39.5	mv	Oxidation Reduction Potential
GC-AP-MW-9	6/5/2018 15:22	6.46	pH	pH
GC-AP-MW-9	6/5/2018 15:22	20.54	C	Temperature
GC-AP-MW-9	6/5/2018 15:22	0.24	NTU	Turbidity
GC-AP-MW-9	6/5/2018 15:27	773.2	uS/cm	Conductivity
GC-AP-MW-9	6/5/2018 15:27	5	ft	Depth to Water Detail
GC-AP-MW-9	6/5/2018 15:27	0.46	mg/L	DO
GC-AP-MW-9	6/5/2018 15:27	-39.4	mv	Oxidation Reduction Potential
GC-AP-MW-9	6/5/2018 15:27	6.47	pH	pH
GC-AP-MW-9	6/5/2018 15:27	20.48	C	Temperature
GC-AP-MW-9	6/5/2018 15:27	0.24	NTU	Turbidity
GC-AP-MW-9	6/5/2018 15:32	773.6	uS/cm	Conductivity
GC-AP-MW-9	6/5/2018 15:32	5	ft	Depth to Water Detail
GC-AP-MW-9	6/5/2018 15:32	0.43	mg/L	DO
GC-AP-MW-9	6/5/2018 15:32	-39.3	mv	Oxidation Reduction Potential
GC-AP-MW-9	6/5/2018 15:32	6.47	pH	pH
GC-AP-MW-9	6/5/2018 15:32	20.51	C	Temperature
GC-AP-MW-9	6/5/2018 15:32	0.21	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-10	6/5/2018 16:20	617.6	uS/cm	Conductivity
GC-AP-MW-10	6/5/2018 16:20	5.14	ft	Depth to Water Detail
GC-AP-MW-10	6/5/2018 16:20	0.43	mg/L	DO
GC-AP-MW-10	6/5/2018 16:20	-67.2	mv	Oxidation Reduction Potential
GC-AP-MW-10	6/5/2018 16:20	6.53	pH	pH
GC-AP-MW-10	6/5/2018 16:20	20.21	C	Temperature
GC-AP-MW-10	6/5/2018 16:20	0.68	NTU	Turbidity
GC-AP-MW-10	6/5/2018 16:25	606.5	uS/cm	Conductivity
GC-AP-MW-10	6/5/2018 16:25	5.15	ft	Depth to Water Detail
GC-AP-MW-10	6/5/2018 16:25	0.38	mg/L	DO
GC-AP-MW-10	6/5/2018 16:25	-64.9	mv	Oxidation Reduction Potential
GC-AP-MW-10	6/5/2018 16:25	6.52	pH	pH
GC-AP-MW-10	6/5/2018 16:25	20.05	C	Temperature
GC-AP-MW-10	6/5/2018 16:25	0.32	NTU	Turbidity
GC-AP-MW-10	6/5/2018 16:30	601.6	uS/cm	Conductivity
GC-AP-MW-10	6/5/2018 16:30	5.15	ft	Depth to Water Detail
GC-AP-MW-10	6/5/2018 16:30	0.35	mg/L	DO
GC-AP-MW-10	6/5/2018 16:30	-63.5	mv	Oxidation Reduction Potential
GC-AP-MW-10	6/5/2018 16:30	6.52	pH	pH
GC-AP-MW-10	6/5/2018 16:30	19.98	C	Temperature
GC-AP-MW-10	6/5/2018 16:30	0.26	NTU	Turbidity
GC-AP-MW-10	6/5/2018 16:35	599.5	uS/cm	Conductivity
GC-AP-MW-10	6/5/2018 16:35	5.16	ft	Depth to Water Detail
GC-AP-MW-10	6/5/2018 16:35	0.32	mg/L	DO
GC-AP-MW-10	6/5/2018 16:35	-62.9	mv	Oxidation Reduction Potential
GC-AP-MW-10	6/5/2018 16:35	6.52	pH	pH
GC-AP-MW-10	6/5/2018 16:35	19.95	C	Temperature
GC-AP-MW-10	6/5/2018 16:35	0.24	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-11	6/5/2018 17:17	359.7	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:17	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:17	2.87	mg/L	DO
GC-AP-MW-11	6/5/2018 17:17	8.2	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:17	6.28	pH	pH
GC-AP-MW-11	6/5/2018 17:17	21.77	C	Temperature
GC-AP-MW-11	6/5/2018 17:17	1.13	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:22	354.7	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:22	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:22	2.74	mg/L	DO
GC-AP-MW-11	6/5/2018 17:22	10.5	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:22	6.26	pH	pH
GC-AP-MW-11	6/5/2018 17:22	21.75	C	Temperature
GC-AP-MW-11	6/5/2018 17:22	0.24	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:27	353.8	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:27	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:27	1.81	mg/L	DO
GC-AP-MW-11	6/5/2018 17:27	4.5	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:27	6.27	pH	pH
GC-AP-MW-11	6/5/2018 17:27	21.75	C	Temperature
GC-AP-MW-11	6/5/2018 17:27	0.2	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:32	349.3	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:32	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:32	2.07	mg/L	DO
GC-AP-MW-11	6/5/2018 17:32	12.5	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:32	6.25	pH	pH
GC-AP-MW-11	6/5/2018 17:32	21.69	C	Temperature
GC-AP-MW-11	6/5/2018 17:32	0.2	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:37	351.5	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:37	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:37	2.23	mg/L	DO
GC-AP-MW-11	6/5/2018 17:37	8.5	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:37	6.26	pH	pH
GC-AP-MW-11	6/5/2018 17:37	21.63	C	Temperature
GC-AP-MW-11	6/5/2018 17:37	0.24	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:42	357.6	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:42	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:42	1.87	mg/L	DO
GC-AP-MW-11	6/5/2018 17:42	4.2	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:42	6.28	pH	pH
GC-AP-MW-11	6/5/2018 17:42	21.63	C	Temperature
GC-AP-MW-11	6/5/2018 17:42	0.32	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:47	360.2	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:47	16.48	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-11	6/5/2018 17:47	2.05	mg/L	DO
GC-AP-MW-11	6/5/2018 17:47	4.7	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:47	6.27	pH	pH
GC-AP-MW-11	6/5/2018 17:47	21.59	C	Temperature
GC-AP-MW-11	6/5/2018 17:47	0.25	NTU	Turbidity
GC-AP-MW-11	6/5/2018 17:52	357.8	uS/cm	Conductivity
GC-AP-MW-11	6/5/2018 17:52	16.48	ft	Depth to Water Detail
GC-AP-MW-11	6/5/2018 17:52	1.9	mg/L	DO
GC-AP-MW-11	6/5/2018 17:52	5.4	mv	Oxidation Reduction Potential
GC-AP-MW-11	6/5/2018 17:52	6.27	pH	pH
GC-AP-MW-11	6/5/2018 17:52	21.61	C	Temperature
GC-AP-MW-11	6/5/2018 17:52	0.27	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-12	6/6/2018 10:38	339.2	uS/cm	Conductivity
GC-AP-MW-12	6/6/2018 10:38	17.77	ft	Depth to Water Detail
GC-AP-MW-12	6/6/2018 10:38	1.79	mg/L	DO
GC-AP-MW-12	6/6/2018 10:38	72.6	mv	Oxidation Reduction Potential
GC-AP-MW-12	6/6/2018 10:38	7	pH	pH
GC-AP-MW-12	6/6/2018 10:38	18.52	C	Temperature
GC-AP-MW-12	6/6/2018 10:38	0.22	NTU	Turbidity
GC-AP-MW-12	6/6/2018 10:43	314.4	uS/cm	Conductivity
GC-AP-MW-12	6/6/2018 10:43	17.77	ft	Depth to Water Detail
GC-AP-MW-12	6/6/2018 10:43	1.72	mg/L	DO
GC-AP-MW-12	6/6/2018 10:43	67.9	mv	Oxidation Reduction Potential
GC-AP-MW-12	6/6/2018 10:43	6.99	pH	pH
GC-AP-MW-12	6/6/2018 10:43	18.34	C	Temperature
GC-AP-MW-12	6/6/2018 10:43	0.22	NTU	Turbidity
GC-AP-MW-12	6/6/2018 10:48	332.1	uS/cm	Conductivity
GC-AP-MW-12	6/6/2018 10:48	17.77	ft	Depth to Water Detail
GC-AP-MW-12	6/6/2018 10:48	1.79	mg/L	DO
GC-AP-MW-12	6/6/2018 10:48	65.1	mv	Oxidation Reduction Potential
GC-AP-MW-12	6/6/2018 10:48	7	pH	pH
GC-AP-MW-12	6/6/2018 10:48	18.3	C	Temperature
GC-AP-MW-12	6/6/2018 10:48	0.3	NTU	Turbidity
GC-AP-MW-12	6/6/2018 10:54	344.7	uS/cm	Conductivity
GC-AP-MW-12	6/6/2018 10:54	17.77	ft	Depth to Water Detail
GC-AP-MW-12	6/6/2018 10:54	1.82	mg/L	DO
GC-AP-MW-12	6/6/2018 10:54	64.2	mv	Oxidation Reduction Potential
GC-AP-MW-12	6/6/2018 10:54	7	pH	pH
GC-AP-MW-12	6/6/2018 10:54	18.3	C	Temperature
GC-AP-MW-12	6/6/2018 10:54	0.21	NTU	Turbidity
GC-AP-MW-12	6/6/2018 10:59	337.3	uS/cm	Conductivity
GC-AP-MW-12	6/6/2018 10:59	17.77	ft	Depth to Water Detail
GC-AP-MW-12	6/6/2018 10:59	1.83	mg/L	DO
GC-AP-MW-12	6/6/2018 10:59	62.5	mv	Oxidation Reduction Potential
GC-AP-MW-12	6/6/2018 10:59	6.99	pH	pH
GC-AP-MW-12	6/6/2018 10:59	18.22	C	Temperature
GC-AP-MW-12	6/6/2018 10:59	0.23	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-13	6/6/2018 11:41	229.5	uS/cm	Conductivity
GC-AP-MW-13	6/6/2018 11:41	19.55	ft	Depth to Water Detail
GC-AP-MW-13	6/6/2018 11:41	2.13	mg/L	DO
GC-AP-MW-13	6/6/2018 11:41	95.2	mv	Oxidation Reduction Potential
GC-AP-MW-13	6/6/2018 11:41	6.55	pH	pH
GC-AP-MW-13	6/6/2018 11:41	22.07	C	Temperature
GC-AP-MW-13	6/6/2018 11:41	0.26	NTU	Turbidity
GC-AP-MW-13	6/6/2018 11:46	230.9	uS/cm	Conductivity
GC-AP-MW-13	6/6/2018 11:46	19.55	ft	Depth to Water Detail
GC-AP-MW-13	6/6/2018 11:46	1.9	mg/L	DO
GC-AP-MW-13	6/6/2018 11:46	89.5	mv	Oxidation Reduction Potential
GC-AP-MW-13	6/6/2018 11:46	6.58	pH	pH
GC-AP-MW-13	6/6/2018 11:46	22.12	C	Temperature
GC-AP-MW-13	6/6/2018 11:46	0.27	NTU	Turbidity
GC-AP-MW-13	6/6/2018 11:51	231.8	uS/cm	Conductivity
GC-AP-MW-13	6/6/2018 11:51	19.55	ft	Depth to Water Detail
GC-AP-MW-13	6/6/2018 11:51	2.21	mg/L	DO
GC-AP-MW-13	6/6/2018 11:51	89	mv	Oxidation Reduction Potential
GC-AP-MW-13	6/6/2018 11:51	6.56	pH	pH
GC-AP-MW-13	6/6/2018 11:51	22.08	C	Temperature
GC-AP-MW-13	6/6/2018 11:51	0.23	NTU	Turbidity
GC-AP-MW-13	6/6/2018 11:56	230.9	uS/cm	Conductivity
GC-AP-MW-13	6/6/2018 11:56	19.55	ft	Depth to Water Detail
GC-AP-MW-13	6/6/2018 11:56	1.88	mg/L	DO
GC-AP-MW-13	6/6/2018 11:56	87	mv	Oxidation Reduction Potential
GC-AP-MW-13	6/6/2018 11:56	6.56	pH	pH
GC-AP-MW-13	6/6/2018 11:56	22.09	C	Temperature
GC-AP-MW-13	6/6/2018 11:56	0.27	NTU	Turbidity
GC-AP-MW-13	6/6/2018 12:01	231.2	uS/cm	Conductivity
GC-AP-MW-13	6/6/2018 12:01	19.55	ft	Depth to Water Detail
GC-AP-MW-13	6/6/2018 12:01	2.04	mg/L	DO
GC-AP-MW-13	6/6/2018 12:01	85.7	mv	Oxidation Reduction Potential
GC-AP-MW-13	6/6/2018 12:01	6.58	pH	pH
GC-AP-MW-13	6/6/2018 12:01	22.11	C	Temperature
GC-AP-MW-13	6/6/2018 12:01	0.26	NTU	Turbidity
GC-AP-MW-13	6/6/2018 12:06	231.5	uS/cm	Conductivity
GC-AP-MW-13	6/6/2018 12:06	19.55	ft	Depth to Water Detail
GC-AP-MW-13	6/6/2018 12:06	2.01	mg/L	DO
GC-AP-MW-13	6/6/2018 12:06	85	mv	Oxidation Reduction Potential
GC-AP-MW-13	6/6/2018 12:06	6.57	pH	pH
GC-AP-MW-13	6/6/2018 12:06	22.13	C	Temperature
GC-AP-MW-13	6/6/2018 12:06	0.41	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-14	6/6/2018 10:34	1205.7	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 10:34	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 10:34	0.47	mg/L	DO
GC-AP-MW-14	6/6/2018 10:34	-5.7	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 10:34	6.23	pH	pH
GC-AP-MW-14	6/6/2018 10:34	21.82	C	Temperature
GC-AP-MW-14	6/6/2018 10:34	27.6	NTU	Turbidity
GC-AP-MW-14	6/6/2018 10:39	1214.1	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 10:39	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 10:39	0.45	mg/L	DO
GC-AP-MW-14	6/6/2018 10:39	19.5	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 10:39	6.24	pH	pH
GC-AP-MW-14	6/6/2018 10:39	21.88	C	Temperature
GC-AP-MW-14	6/6/2018 10:39	21.1	NTU	Turbidity
GC-AP-MW-14	6/6/2018 10:44	1203	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 10:44	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 10:44	0.44	mg/L	DO
GC-AP-MW-14	6/6/2018 10:44	30	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 10:44	6.24	pH	pH
GC-AP-MW-14	6/6/2018 10:44	21.91	C	Temperature
GC-AP-MW-14	6/6/2018 10:44	20.5	NTU	Turbidity
GC-AP-MW-14	6/6/2018 10:49	1190	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 10:49	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 10:49	4.52	mg/L	DO
GC-AP-MW-14	6/6/2018 10:49	7.7	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 10:49	6.26	pH	pH
GC-AP-MW-14	6/6/2018 10:49	21.81	C	Temperature
GC-AP-MW-14	6/6/2018 10:49	20.7	NTU	Turbidity
GC-AP-MW-14	6/6/2018 10:54	1164.8	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 10:54	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 10:54	0.44	mg/L	DO
GC-AP-MW-14	6/6/2018 10:54	17.7	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 10:54	6.22	pH	pH
GC-AP-MW-14	6/6/2018 10:54	22.05	C	Temperature
GC-AP-MW-14	6/6/2018 10:54	17.9	NTU	Turbidity
GC-AP-MW-14	6/6/2018 10:59	1227.6	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 10:59	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 10:59	0.43	mg/L	DO
GC-AP-MW-14	6/6/2018 10:59	29.6	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 10:59	6.24	pH	pH
GC-AP-MW-14	6/6/2018 10:59	21.66	C	Temperature
GC-AP-MW-14	6/6/2018 10:59	16.7	NTU	Turbidity
GC-AP-MW-14	6/6/2018 11:04	1229.4	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 11:04	7.35	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-14	6/6/2018 11:04	0.43	mg/L	DO
GC-AP-MW-14	6/6/2018 11:04	31.7	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 11:04	6.24	pH	pH
GC-AP-MW-14	6/6/2018 11:04	21.64	C	Temperature
GC-AP-MW-14	6/6/2018 11:04	14.6	NTU	Turbidity
GC-AP-MW-14	6/6/2018 11:09	1212.5	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 11:09	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 11:09	0.42	mg/L	DO
GC-AP-MW-14	6/6/2018 11:09	38	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 11:09	6.24	pH	pH
GC-AP-MW-14	6/6/2018 11:09	21.71	C	Temperature
GC-AP-MW-14	6/6/2018 11:09	11.9	NTU	Turbidity
GC-AP-MW-14	6/6/2018 11:14	1237.5	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 11:14	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 11:14	0.43	mg/L	DO
GC-AP-MW-14	6/6/2018 11:14	45.2	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 11:14	6.24	pH	pH
GC-AP-MW-14	6/6/2018 11:14	21.73	C	Temperature
GC-AP-MW-14	6/6/2018 11:14	11.7	NTU	Turbidity
GC-AP-MW-14	6/6/2018 11:19	1228.9	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 11:19	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 11:19	0.43	mg/L	DO
GC-AP-MW-14	6/6/2018 11:19	50.3	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 11:19	6.24	pH	pH
GC-AP-MW-14	6/6/2018 11:19	21.63	C	Temperature
GC-AP-MW-14	6/6/2018 11:19	9.38	NTU	Turbidity
GC-AP-MW-14	6/6/2018 11:24	1193.4	uS/cm	Conductivity
GC-AP-MW-14	6/6/2018 11:24	7.35	ft	Depth to Water Detail
GC-AP-MW-14	6/6/2018 11:24	0.42	mg/L	DO
GC-AP-MW-14	6/6/2018 11:24	47.4	mv	Oxidation Reduction Potential
GC-AP-MW-14	6/6/2018 11:24	6.25	pH	pH
GC-AP-MW-14	6/6/2018 11:24	21.71	C	Temperature
GC-AP-MW-14	6/6/2018 11:24	8.22	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-15	6/5/2018 13:35	481.8	uS/cm	Conductivity
GC-AP-MW-15	6/5/2018 13:35	15.97	ft	Depth to Water Detail
GC-AP-MW-15	6/5/2018 13:35	1.06	mg/L	DO
GC-AP-MW-15	6/5/2018 13:35	115.7	mv	Oxidation Reduction Potential
GC-AP-MW-15	6/5/2018 13:35	6.23	pH	pH
GC-AP-MW-15	6/5/2018 13:35	19.81	C	Temperature
GC-AP-MW-15	6/5/2018 13:35	0.44	NTU	Turbidity
GC-AP-MW-15	6/5/2018 13:40	474.9	uS/cm	Conductivity
GC-AP-MW-15	6/5/2018 13:40	15.97	ft	Depth to Water Detail
GC-AP-MW-15	6/5/2018 13:40	0.88	mg/L	DO
GC-AP-MW-15	6/5/2018 13:40	97.4	mv	Oxidation Reduction Potential
GC-AP-MW-15	6/5/2018 13:40	6.13	pH	pH
GC-AP-MW-15	6/5/2018 13:40	19.74	C	Temperature
GC-AP-MW-15	6/5/2018 13:40	0.88	NTU	Turbidity
GC-AP-MW-15	6/5/2018 13:45	473.1	uS/cm	Conductivity
GC-AP-MW-15	6/5/2018 13:45	15.97	ft	Depth to Water Detail
GC-AP-MW-15	6/5/2018 13:45	0.81	mg/L	DO
GC-AP-MW-15	6/5/2018 13:45	96.9	mv	Oxidation Reduction Potential
GC-AP-MW-15	6/5/2018 13:45	6.1	pH	pH
GC-AP-MW-15	6/5/2018 13:45	19.66	C	Temperature
GC-AP-MW-15	6/5/2018 13:45	3.65	NTU	Turbidity
GC-AP-MW-15	6/5/2018 13:50	470.9	uS/cm	Conductivity
GC-AP-MW-15	6/5/2018 13:50	15.97	ft	Depth to Water Detail
GC-AP-MW-15	6/5/2018 13:50	0.76	mg/L	DO
GC-AP-MW-15	6/5/2018 13:50	96.3	mv	Oxidation Reduction Potential
GC-AP-MW-15	6/5/2018 13:50	6.08	pH	pH
GC-AP-MW-15	6/5/2018 13:50	19.69	C	Temperature
GC-AP-MW-15	6/5/2018 13:50	0.35	NTU	Turbidity
GC-AP-MW-15	6/5/2018 13:55	471.7	uS/cm	Conductivity
GC-AP-MW-15	6/5/2018 13:55	15.97	ft	Depth to Water Detail
GC-AP-MW-15	6/5/2018 13:55	0.71	mg/L	DO
GC-AP-MW-15	6/5/2018 13:55	97.3	mv	Oxidation Reduction Potential
GC-AP-MW-15	6/5/2018 13:55	6.06	pH	pH
GC-AP-MW-15	6/5/2018 13:55	19.7	C	Temperature
GC-AP-MW-15	6/5/2018 13:55	0.28	NTU	Turbidity
GC-AP-MW-15	6/5/2018 14:00	472	uS/cm	Conductivity
GC-AP-MW-15	6/5/2018 14:00	15.97	ft	Depth to Water Detail
GC-AP-MW-15	6/5/2018 14:00	0.7	mg/L	DO
GC-AP-MW-15	6/5/2018 14:00	97.6	mv	Oxidation Reduction Potential
GC-AP-MW-15	6/5/2018 14:00	6.05	pH	pH
GC-AP-MW-15	6/5/2018 14:00	19.63	C	Temperature
GC-AP-MW-15	6/5/2018 14:00	0.78	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-16	6/5/2018 12:04	603.4	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:04	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:04	0.38	mg/L	DO
GC-AP-MW-16	6/5/2018 12:04	2.4	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:04	6.38	pH	pH
GC-AP-MW-16	6/5/2018 12:04	20.17	C	Temperature
GC-AP-MW-16	6/5/2018 12:04	35.8	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:09	615.9	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:09	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:09	0.24	mg/L	DO
GC-AP-MW-16	6/5/2018 12:09	3.2	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:09	6.35	pH	pH
GC-AP-MW-16	6/5/2018 12:09	20.21	C	Temperature
GC-AP-MW-16	6/5/2018 12:09	19.9	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:14	620.7	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:14	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:14	0.19	mg/L	DO
GC-AP-MW-16	6/5/2018 12:14	5	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:14	6.34	pH	pH
GC-AP-MW-16	6/5/2018 12:14	20.23	C	Temperature
GC-AP-MW-16	6/5/2018 12:14	12.7	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:19	623.6	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:19	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:19	0.17	mg/L	DO
GC-AP-MW-16	6/5/2018 12:19	7.7	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:19	6.33	pH	pH
GC-AP-MW-16	6/5/2018 12:19	20.3	C	Temperature
GC-AP-MW-16	6/5/2018 12:19	9.34	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:24	626.6	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:24	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:24	0.16	mg/L	DO
GC-AP-MW-16	6/5/2018 12:24	10.6	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:24	6.32	pH	pH
GC-AP-MW-16	6/5/2018 12:24	20.26	C	Temperature
GC-AP-MW-16	6/5/2018 12:24	9.3	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:29	627.8	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:29	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:29	0.16	mg/L	DO
GC-AP-MW-16	6/5/2018 12:29	12.5	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:29	6.31	pH	pH
GC-AP-MW-16	6/5/2018 12:29	20.19	C	Temperature
GC-AP-MW-16	6/5/2018 12:29	8.49	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:34	629.3	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:34	32.43	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-16	6/5/2018 12:34	0.16	mg/L	DO
GC-AP-MW-16	6/5/2018 12:34	13	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:34	6.31	pH	pH
GC-AP-MW-16	6/5/2018 12:34	20.15	C	Temperature
GC-AP-MW-16	6/5/2018 12:34	8.08	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:39	629.8	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:39	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:39	0.15	mg/L	DO
GC-AP-MW-16	6/5/2018 12:39	11.4	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:39	6.29	pH	pH
GC-AP-MW-16	6/5/2018 12:39	20.25	C	Temperature
GC-AP-MW-16	6/5/2018 12:39	6.68	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:44	628.8	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:44	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:44	0.16	mg/L	DO
GC-AP-MW-16	6/5/2018 12:44	11.4	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:44	6.29	pH	pH
GC-AP-MW-16	6/5/2018 12:44	20.18	C	Temperature
GC-AP-MW-16	6/5/2018 12:44	6.38	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:49	628.1	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:49	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:49	0.15	mg/L	DO
GC-AP-MW-16	6/5/2018 12:49	11.6	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:49	6.29	pH	pH
GC-AP-MW-16	6/5/2018 12:49	20.35	C	Temperature
GC-AP-MW-16	6/5/2018 12:49	7.08	NTU	Turbidity
GC-AP-MW-16	6/5/2018 12:54	623.3	uS/cm	Conductivity
GC-AP-MW-16	6/5/2018 12:54	32.43	ft	Depth to Water Detail
GC-AP-MW-16	6/5/2018 12:54	0.15	mg/L	DO
GC-AP-MW-16	6/5/2018 12:54	13.4	mv	Oxidation Reduction Potential
GC-AP-MW-16	6/5/2018 12:54	6.29	pH	pH
GC-AP-MW-16	6/5/2018 12:54	20.4	C	Temperature
GC-AP-MW-16	6/5/2018 12:54	7.56	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-17	6/5/2018 10:52	949.7	uS/cm	Conductivity
GC-AP-MW-17	6/5/2018 10:52	28.97	ft	Depth to Water Detail
GC-AP-MW-17	6/5/2018 10:52	0.27	mg/L	DO
GC-AP-MW-17	6/5/2018 10:52	-18.7	mv	Oxidation Reduction Potential
GC-AP-MW-17	6/5/2018 10:52	6.19	pH	pH
GC-AP-MW-17	6/5/2018 10:52	20.7	C	Temperature
GC-AP-MW-17	6/5/2018 10:52	16.9	NTU	Turbidity
GC-AP-MW-17	6/5/2018 10:57	949.2	uS/cm	Conductivity
GC-AP-MW-17	6/5/2018 10:57	28.97	ft	Depth to Water Detail
GC-AP-MW-17	6/5/2018 10:57	0.22	mg/L	DO
GC-AP-MW-17	6/5/2018 10:57	-22.5	mv	Oxidation Reduction Potential
GC-AP-MW-17	6/5/2018 10:57	6.19	pH	pH
GC-AP-MW-17	6/5/2018 10:57	20.62	C	Temperature
GC-AP-MW-17	6/5/2018 10:57	4.7	NTU	Turbidity
GC-AP-MW-17	6/5/2018 11:02	942.5	uS/cm	Conductivity
GC-AP-MW-17	6/5/2018 11:02	28.97	ft	Depth to Water Detail
GC-AP-MW-17	6/5/2018 11:02	0.2	mg/L	DO
GC-AP-MW-17	6/5/2018 11:02	-24.9	mv	Oxidation Reduction Potential
GC-AP-MW-17	6/5/2018 11:02	6.2	pH	pH
GC-AP-MW-17	6/5/2018 11:02	20.6	C	Temperature
GC-AP-MW-17	6/5/2018 11:02	7.92	NTU	Turbidity
GC-AP-MW-17	6/5/2018 11:07	949.7	uS/cm	Conductivity
GC-AP-MW-17	6/5/2018 11:07	28.97	ft	Depth to Water Detail
GC-AP-MW-17	6/5/2018 11:07	0.18	mg/L	DO
GC-AP-MW-17	6/5/2018 11:07	-25.8	mv	Oxidation Reduction Potential
GC-AP-MW-17	6/5/2018 11:07	6.2	pH	pH
GC-AP-MW-17	6/5/2018 11:07	20.62	C	Temperature
GC-AP-MW-17	6/5/2018 11:07	2.67	NTU	Turbidity
GC-AP-MW-17	6/5/2018 11:12	943.3	uS/cm	Conductivity
GC-AP-MW-17	6/5/2018 11:12	28.97	ft	Depth to Water Detail
GC-AP-MW-17	6/5/2018 11:12	0.18	mg/L	DO
GC-AP-MW-17	6/5/2018 11:12	-26.7	mv	Oxidation Reduction Potential
GC-AP-MW-17	6/5/2018 11:12	6.21	pH	pH
GC-AP-MW-17	6/5/2018 11:12	20.62	C	Temperature
GC-AP-MW-17	6/5/2018 11:12	1.92	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-18	6/5/2018 9:47	591.4	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 9:47	28.28	ft	Depth to Water Detail
GC-AP-MW-18	6/5/2018 9:47	0.24	mg/L	DO
GC-AP-MW-18	6/5/2018 9:47	9.6	mv	Oxidation Reduction Potential
GC-AP-MW-18	6/5/2018 9:47	6.15	pH	pH
GC-AP-MW-18	6/5/2018 9:47	20.39	C	Temperature
GC-AP-MW-18	6/5/2018 9:47	53.4	NTU	Turbidity
GC-AP-MW-18	6/5/2018 9:52	596.6	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 9:52	28.28	ft	Depth to Water Detail
GC-AP-MW-18	6/5/2018 9:52	0.2	mg/L	DO
GC-AP-MW-18	6/5/2018 9:52	12	mv	Oxidation Reduction Potential
GC-AP-MW-18	6/5/2018 9:52	6.12	pH	pH
GC-AP-MW-18	6/5/2018 9:52	20.3	C	Temperature
GC-AP-MW-18	6/5/2018 9:52	37.4	NTU	Turbidity
GC-AP-MW-18	6/5/2018 9:57	601.4	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 9:57	28.28	ft	Depth to Water Detail
GC-AP-MW-18	6/5/2018 9:57	0.18	mg/L	DO
GC-AP-MW-18	6/5/2018 9:57	10.1	mv	Oxidation Reduction Potential
GC-AP-MW-18	6/5/2018 9:57	6.12	pH	pH
GC-AP-MW-18	6/5/2018 9:57	20.3	C	Temperature
GC-AP-MW-18	6/5/2018 9:57	37.3	NTU	Turbidity
GC-AP-MW-18	6/5/2018 10:02	605.1	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 10:02	28.28	ft	Depth to Water Detail
GC-AP-MW-18	6/5/2018 10:02	0.18	mg/L	DO
GC-AP-MW-18	6/5/2018 10:02	7.5	mv	Oxidation Reduction Potential
GC-AP-MW-18	6/5/2018 10:02	6.13	pH	pH
GC-AP-MW-18	6/5/2018 10:02	20.3	C	Temperature
GC-AP-MW-18	6/5/2018 10:02	23.1	NTU	Turbidity
GC-AP-MW-18	6/5/2018 10:07	608.5	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 10:07	28.28	ft	Depth to Water Detail
GC-AP-MW-18	6/5/2018 10:07	0.17	mg/L	DO
GC-AP-MW-18	6/5/2018 10:07	7.2	mv	Oxidation Reduction Potential
GC-AP-MW-18	6/5/2018 10:07	6.14	pH	pH
GC-AP-MW-18	6/5/2018 10:07	20.3	C	Temperature
GC-AP-MW-18	6/5/2018 10:07	7.96	NTU	Turbidity
GC-AP-MW-18	6/5/2018 10:12	612.8	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 10:12	28.28	ft	Depth to Water Detail
GC-AP-MW-18	6/5/2018 10:12	0.17	mg/L	DO
GC-AP-MW-18	6/5/2018 10:12	7.5	mv	Oxidation Reduction Potential
GC-AP-MW-18	6/5/2018 10:12	6.15	pH	pH
GC-AP-MW-18	6/5/2018 10:12	20.26	C	Temperature
GC-AP-MW-18	6/5/2018 10:12	4.63	NTU	Turbidity
GC-AP-MW-18	6/5/2018 10:17	614.9	uS/cm	Conductivity
GC-AP-MW-18	6/5/2018 10:17	28.28	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-18	6/5/2018 10:17	0.17	mg/L	DO
GC-AP-MW-18	6/5/2018 10:17	8.1	mv	Oxidation Reduction Potention
GC-AP-MW-18	6/5/2018 10:17	6.16	pH	pH
GC-AP-MW-18	6/5/2018 10:17	20.26	C	Temperature
GC-AP-MW-18	6/5/2018 10:17	3.18	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-21	6/6/2018 9:08	345.4	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:08	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:08	4.57	mg/L	DO
GC-AP-MW-21	6/6/2018 9:08	8.3	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:08	6.79	pH	pH
GC-AP-MW-21	6/6/2018 9:08	17	C	Temperature
GC-AP-MW-21	6/6/2018 9:08	5.51	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:13	345.7	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:13	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:13	5	mg/L	DO
GC-AP-MW-21	6/6/2018 9:13	11	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:13	6.84	pH	pH
GC-AP-MW-21	6/6/2018 9:13	16.87	C	Temperature
GC-AP-MW-21	6/6/2018 9:13	10.63	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:18	343.2	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:18	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:18	5.28	mg/L	DO
GC-AP-MW-21	6/6/2018 9:18	12.4	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:18	6.88	pH	pH
GC-AP-MW-21	6/6/2018 9:18	16.87	C	Temperature
GC-AP-MW-21	6/6/2018 9:18	0.48	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:24	339.5	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:24	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:24	3.76	mg/L	DO
GC-AP-MW-21	6/6/2018 9:24	13.7	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:24	6.9	pH	pH
GC-AP-MW-21	6/6/2018 9:24	16.83	C	Temperature
GC-AP-MW-21	6/6/2018 9:24	0.3	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:29	342.7	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:29	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:29	0.81	mg/L	DO
GC-AP-MW-21	6/6/2018 9:29	15.4	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:29	6.93	pH	pH
GC-AP-MW-21	6/6/2018 9:29	16.86	C	Temperature
GC-AP-MW-21	6/6/2018 9:29	0.28	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:34	340.7	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:34	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:34	0.75	mg/L	DO
GC-AP-MW-21	6/6/2018 9:34	17.1	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:34	6.9	pH	pH
GC-AP-MW-21	6/6/2018 9:34	16.81	C	Temperature
GC-AP-MW-21	6/6/2018 9:34	0.28	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:39	341.7	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:39	19.95	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-21	6/6/2018 9:39	0.57	mg/L	DO
GC-AP-MW-21	6/6/2018 9:39	14.7	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:39	6.92	pH	pH
GC-AP-MW-21	6/6/2018 9:39	16.86	C	Temperature
GC-AP-MW-21	6/6/2018 9:39	0.32	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:44	339.2	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:44	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:44	0.41	mg/L	DO
GC-AP-MW-21	6/6/2018 9:44	16.2	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:44	6.93	pH	pH
GC-AP-MW-21	6/6/2018 9:44	16.83	C	Temperature
GC-AP-MW-21	6/6/2018 9:44	0.29	NTU	Turbidity
GC-AP-MW-21	6/6/2018 9:49	337.3	uS/cm	Conductivity
GC-AP-MW-21	6/6/2018 9:49	19.95	ft	Depth to Water Detail
GC-AP-MW-21	6/6/2018 9:49	0.45	mg/L	DO
GC-AP-MW-21	6/6/2018 9:49	17	mv	Oxidation Reduction Potential
GC-AP-MW-21	6/6/2018 9:49	6.94	pH	pH
GC-AP-MW-21	6/6/2018 9:49	16.87	C	Temperature
GC-AP-MW-21	6/6/2018 9:49	0.35	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-23	6/5/2018 10:56	189.9	uS/cm	Conductivity
GC-AP-MW-23	6/5/2018 10:56	14.28	ft	Depth to Water Detail
GC-AP-MW-23	6/5/2018 10:56	5	mg/L	DO
GC-AP-MW-23	6/5/2018 10:56	133.3	mv	Oxidation Reduction Potential
GC-AP-MW-23	6/5/2018 10:56	6.43	pH	pH
GC-AP-MW-23	6/5/2018 10:56	19.97	C	Temperature
GC-AP-MW-23	6/5/2018 10:56	1.38	NTU	Turbidity
GC-AP-MW-23	6/5/2018 11:01	187.9	uS/cm	Conductivity
GC-AP-MW-23	6/5/2018 11:01	14.28	ft	Depth to Water Detail
GC-AP-MW-23	6/5/2018 11:01	5.23	mg/L	DO
GC-AP-MW-23	6/5/2018 11:01	95.7	mv	Oxidation Reduction Potential
GC-AP-MW-23	6/5/2018 11:01	6.44	pH	pH
GC-AP-MW-23	6/5/2018 11:01	19.93	C	Temperature
GC-AP-MW-23	6/5/2018 11:01	1.51	NTU	Turbidity
GC-AP-MW-23	6/5/2018 11:06	185	uS/cm	Conductivity
GC-AP-MW-23	6/5/2018 11:06	14.28	ft	Depth to Water Detail
GC-AP-MW-23	6/5/2018 11:06	5.4	mg/L	DO
GC-AP-MW-23	6/5/2018 11:06	142.9	mv	Oxidation Reduction Potential
GC-AP-MW-23	6/5/2018 11:06	6.43	pH	pH
GC-AP-MW-23	6/5/2018 11:06	20.06	C	Temperature
GC-AP-MW-23	6/5/2018 11:06	1.84	NTU	Turbidity
GC-AP-MW-23	6/5/2018 11:11	182.1	uS/cm	Conductivity
GC-AP-MW-23	6/5/2018 11:11	14.28	ft	Depth to Water Detail
GC-AP-MW-23	6/5/2018 11:11	5.52	mg/L	DO
GC-AP-MW-23	6/5/2018 11:11	60.1	mv	Oxidation Reduction Potential
GC-AP-MW-23	6/5/2018 11:11	6.43	pH	pH
GC-AP-MW-23	6/5/2018 11:11	20.14	C	Temperature
GC-AP-MW-23	6/5/2018 11:11	1.81	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-24	6/5/2018 10:08	280.3	uS/cm	Conductivity
GC-AP-MW-24	6/5/2018 10:08	18	ft	Depth to Water Detail
GC-AP-MW-24	6/5/2018 10:08	4.49	mg/L	DO
GC-AP-MW-24	6/5/2018 10:08	106.7	mv	Oxidation Reduction Potential
GC-AP-MW-24	6/5/2018 10:08	5.25	pH	pH
GC-AP-MW-24	6/5/2018 10:08	20.08	C	Temperature
GC-AP-MW-24	6/5/2018 10:08	1.88	NTU	Turbidity
GC-AP-MW-24	6/5/2018 10:13	273.6	uS/cm	Conductivity
GC-AP-MW-24	6/5/2018 10:13	18	ft	Depth to Water Detail
GC-AP-MW-24	6/5/2018 10:13	4.49	mg/L	DO
GC-AP-MW-24	6/5/2018 10:13	98.2	mv	Oxidation Reduction Potential
GC-AP-MW-24	6/5/2018 10:13	5.28	pH	pH
GC-AP-MW-24	6/5/2018 10:13	19.9	C	Temperature
GC-AP-MW-24	6/5/2018 10:13	1.37	NTU	Turbidity
GC-AP-MW-24	6/5/2018 10:18	272.5	uS/cm	Conductivity
GC-AP-MW-24	6/5/2018 10:18	18	ft	Depth to Water Detail
GC-AP-MW-24	6/5/2018 10:18	4.5	mg/L	DO
GC-AP-MW-24	6/5/2018 10:18	107	mv	Oxidation Reduction Potential
GC-AP-MW-24	6/5/2018 10:18	5.29	pH	pH
GC-AP-MW-24	6/5/2018 10:18	19.86	C	Temperature
GC-AP-MW-24	6/5/2018 10:18	1.19	NTU	Turbidity
GC-AP-MW-24	6/5/2018 10:23	268	uS/cm	Conductivity
GC-AP-MW-24	6/5/2018 10:23	18	ft	Depth to Water Detail
GC-AP-MW-24	6/5/2018 10:23	4.5	mg/L	DO
GC-AP-MW-24	6/5/2018 10:23	99.6	mv	Oxidation Reduction Potential
GC-AP-MW-24	6/5/2018 10:23	5.31	pH	pH
GC-AP-MW-24	6/5/2018 10:23	19.88	C	Temperature
GC-AP-MW-24	6/5/2018 10:23	1.55	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-25	6/6/2018 9:10	227.2	uS/cm	Conductivity
GC-AP-MW-25	6/6/2018 9:10	7.08	ft	Depth to Water Detail
GC-AP-MW-25	6/6/2018 9:10	0.56	mg/L	DO
GC-AP-MW-25	6/6/2018 9:10	50.9	mv	Oxidation Reduction Potential
GC-AP-MW-25	6/6/2018 9:10	5.16	pH	pH
GC-AP-MW-25	6/6/2018 9:10	21.47	C	Temperature
GC-AP-MW-25	6/6/2018 9:10	1.23	NTU	Turbidity
GC-AP-MW-25	6/6/2018 9:15	229.7	uS/cm	Conductivity
GC-AP-MW-25	6/6/2018 9:15	7.1	ft	Depth to Water Detail
GC-AP-MW-25	6/6/2018 9:15	0.51	mg/L	DO
GC-AP-MW-25	6/6/2018 9:15	45.9	mv	Oxidation Reduction Potential
GC-AP-MW-25	6/6/2018 9:15	5.18	pH	pH
GC-AP-MW-25	6/6/2018 9:15	21.37	C	Temperature
GC-AP-MW-25	6/6/2018 9:15	1.43	NTU	Turbidity
GC-AP-MW-25	6/6/2018 9:20	228.2	uS/cm	Conductivity
GC-AP-MW-25	6/6/2018 9:20	7.14	ft	Depth to Water Detail
GC-AP-MW-25	6/6/2018 9:20	0.49	mg/L	DO
GC-AP-MW-25	6/6/2018 9:20	43.2	mv	Oxidation Reduction Potential
GC-AP-MW-25	6/6/2018 9:20	5.19	pH	pH
GC-AP-MW-25	6/6/2018 9:20	21.33	C	Temperature
GC-AP-MW-25	6/6/2018 9:20	1.32	NTU	Turbidity
GC-AP-MW-25	6/6/2018 9:25	228.4	uS/cm	Conductivity
GC-AP-MW-25	6/6/2018 9:25	7.14	ft	Depth to Water Detail
GC-AP-MW-25	6/6/2018 9:25	0.48	mg/L	DO
GC-AP-MW-25	6/6/2018 9:25	43.9	mv	Oxidation Reduction Potential
GC-AP-MW-25	6/6/2018 9:25	5.21	pH	pH
GC-AP-MW-25	6/6/2018 9:25	21.47	C	Temperature
GC-AP-MW-25	6/6/2018 9:25	1.42	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-26	6/5/2018 15:06	46.1	uS/cm	Conductivity
GC-AP-MW-26	6/5/2018 15:06	5.6	ft	Depth to Water Detail
GC-AP-MW-26	6/5/2018 15:06	6.24	mg/L	DO
GC-AP-MW-26	6/5/2018 15:06	80.6	mv	Oxidation Reduction Potential
GC-AP-MW-26	6/5/2018 15:06	5.26	pH	pH
GC-AP-MW-26	6/5/2018 15:06	20.18	C	Temperature
GC-AP-MW-26	6/5/2018 15:06	1.22	NTU	Turbidity
GC-AP-MW-26	6/5/2018 15:11	45.9	uS/cm	Conductivity
GC-AP-MW-26	6/5/2018 15:11	5.6	ft	Depth to Water Detail
GC-AP-MW-26	6/5/2018 15:11	6.54	mg/L	DO
GC-AP-MW-26	6/5/2018 15:11	85.2	mv	Oxidation Reduction Potential
GC-AP-MW-26	6/5/2018 15:11	5.12	pH	pH
GC-AP-MW-26	6/5/2018 15:11	20.17	C	Temperature
GC-AP-MW-26	6/5/2018 15:11	1.87	NTU	Turbidity
GC-AP-MW-26	6/5/2018 15:16	45.8	uS/cm	Conductivity
GC-AP-MW-26	6/5/2018 15:16	5.6	ft	Depth to Water Detail
GC-AP-MW-26	6/5/2018 15:16	6.44	mg/L	DO
GC-AP-MW-26	6/5/2018 15:16	84.2	mv	Oxidation Reduction Potential
GC-AP-MW-26	6/5/2018 15:16	5.16	pH	pH
GC-AP-MW-26	6/5/2018 15:16	20.2	C	Temperature
GC-AP-MW-26	6/5/2018 15:16	1.12	NTU	Turbidity
GC-AP-MW-26	6/5/2018 15:21	44.9	uS/cm	Conductivity
GC-AP-MW-26	6/5/2018 15:21	5.6	ft	Depth to Water Detail
GC-AP-MW-26	6/5/2018 15:21	6.34	mg/L	DO
GC-AP-MW-26	6/5/2018 15:21	81.5	mv	Oxidation Reduction Potential
GC-AP-MW-26	6/5/2018 15:21	5.24	pH	pH
GC-AP-MW-26	6/5/2018 15:21	20.13	C	Temperature
GC-AP-MW-26	6/5/2018 15:21	1.36	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-27	6/5/2018 14:27	23	uS/cm	Conductivity
GC-AP-MW-27	6/5/2018 14:27	7.55	ft	Depth to Water Detail
GC-AP-MW-27	6/5/2018 14:27	5.18	mg/L	DO
GC-AP-MW-27	6/5/2018 14:27	82.1	mv	Oxidation Reduction Potential
GC-AP-MW-27	6/5/2018 14:27	4.99	pH	pH
GC-AP-MW-27	6/5/2018 14:27	20.93	C	Temperature
GC-AP-MW-27	6/5/2018 14:27	1.69	NTU	Turbidity
GC-AP-MW-27	6/5/2018 14:32	23.2	uS/cm	Conductivity
GC-AP-MW-27	6/5/2018 14:32	7.55	ft	Depth to Water Detail
GC-AP-MW-27	6/5/2018 14:32	5.19	mg/L	DO
GC-AP-MW-27	6/5/2018 14:32	81.9	mv	Oxidation Reduction Potential
GC-AP-MW-27	6/5/2018 14:32	4.99	pH	pH
GC-AP-MW-27	6/5/2018 14:32	20.83	C	Temperature
GC-AP-MW-27	6/5/2018 14:32	1.92	NTU	Turbidity
GC-AP-MW-27	6/5/2018 14:37	23.3	uS/cm	Conductivity
GC-AP-MW-27	6/5/2018 14:37	7.55	ft	Depth to Water Detail
GC-AP-MW-27	6/5/2018 14:37	5.14	mg/L	DO
GC-AP-MW-27	6/5/2018 14:37	83.3	mv	Oxidation Reduction Potential
GC-AP-MW-27	6/5/2018 14:37	4.99	pH	pH
GC-AP-MW-27	6/5/2018 14:37	20.79	C	Temperature
GC-AP-MW-27	6/5/2018 14:37	0.86	NTU	Turbidity
GC-AP-MW-27	6/5/2018 14:42	23.5	uS/cm	Conductivity
GC-AP-MW-27	6/5/2018 14:42	7.55	ft	Depth to Water Detail
GC-AP-MW-27	6/5/2018 14:42	5.09	mg/L	DO
GC-AP-MW-27	6/5/2018 14:42	84.2	mv	Oxidation Reduction Potential
GC-AP-MW-27	6/5/2018 14:42	5	pH	pH
GC-AP-MW-27	6/5/2018 14:42	20.71	C	Temperature
GC-AP-MW-27	6/5/2018 14:42	1.5	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-28	6/5/2018 13:47	51.1	uS/cm	Conductivity
GC-AP-MW-28	6/5/2018 13:47	7.44	ft	Depth to Water Detail
GC-AP-MW-28	6/5/2018 13:47	7.92	mg/L	DO
GC-AP-MW-28	6/5/2018 13:47	100	mv	Oxidation Reduction Potential
GC-AP-MW-28	6/5/2018 13:47	4.82	pH	pH
GC-AP-MW-28	6/5/2018 13:47	20.05	C	Temperature
GC-AP-MW-28	6/5/2018 13:47	0.96	NTU	Turbidity
GC-AP-MW-28	6/5/2018 13:52	51.6	uS/cm	Conductivity
GC-AP-MW-28	6/5/2018 13:52	7.44	ft	Depth to Water Detail
GC-AP-MW-28	6/5/2018 13:52	7.85	mg/L	DO
GC-AP-MW-28	6/5/2018 13:52	101.2	mv	Oxidation Reduction Potential
GC-AP-MW-28	6/5/2018 13:52	4.86	pH	pH
GC-AP-MW-28	6/5/2018 13:52	19.94	C	Temperature
GC-AP-MW-28	6/5/2018 13:52	1.17	NTU	Turbidity
GC-AP-MW-28	6/5/2018 13:57	52.6	uS/cm	Conductivity
GC-AP-MW-28	6/5/2018 13:57	7.44	ft	Depth to Water Detail
GC-AP-MW-28	6/5/2018 13:57	7.77	mg/L	DO
GC-AP-MW-28	6/5/2018 13:57	100.5	mv	Oxidation Reduction Potential
GC-AP-MW-28	6/5/2018 13:57	4.86	pH	pH
GC-AP-MW-28	6/5/2018 13:57	19.84	C	Temperature
GC-AP-MW-28	6/5/2018 13:57	1.61	NTU	Turbidity
GC-AP-MW-28	6/5/2018 14:03	53.2	uS/cm	Conductivity
GC-AP-MW-28	6/5/2018 14:03	7.44	ft	Depth to Water Detail
GC-AP-MW-28	6/5/2018 14:03	7.73	mg/L	DO
GC-AP-MW-28	6/5/2018 14:03	100.4	mv	Oxidation Reduction Potential
GC-AP-MW-28	6/5/2018 14:03	4.87	pH	pH
GC-AP-MW-28	6/5/2018 14:03	19.74	C	Temperature
GC-AP-MW-28	6/5/2018 14:03	1.95	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-29	6/5/2018 12:12	20	uS/cm	Conductivity
GC-AP-MW-29	6/5/2018 12:12	5.95	ft	Depth to Water Detail
GC-AP-MW-29	6/5/2018 12:12	8.4	mg/L	DO
GC-AP-MW-29	6/5/2018 12:12	106.3	mv	Oxidation Reduction Potential
GC-AP-MW-29	6/5/2018 12:12	4.99	pH	pH
GC-AP-MW-29	6/5/2018 12:12	19.73	C	Temperature
GC-AP-MW-29	6/5/2018 12:12	3.53	NTU	Turbidity
GC-AP-MW-29	6/5/2018 12:17	20	uS/cm	Conductivity
GC-AP-MW-29	6/5/2018 12:17	5.95	ft	Depth to Water Detail
GC-AP-MW-29	6/5/2018 12:17	8.39	mg/L	DO
GC-AP-MW-29	6/5/2018 12:17	103.4	mv	Oxidation Reduction Potential
GC-AP-MW-29	6/5/2018 12:17	4.92	pH	pH
GC-AP-MW-29	6/5/2018 12:17	19.68	C	Temperature
GC-AP-MW-29	6/5/2018 12:17	1.86	NTU	Turbidity
GC-AP-MW-29	6/5/2018 12:22	20.2	uS/cm	Conductivity
GC-AP-MW-29	6/5/2018 12:22	5.95	ft	Depth to Water Detail
GC-AP-MW-29	6/5/2018 12:22	8.43	mg/L	DO
GC-AP-MW-29	6/5/2018 12:22	104.2	mv	Oxidation Reduction Potential
GC-AP-MW-29	6/5/2018 12:22	4.9	pH	pH
GC-AP-MW-29	6/5/2018 12:22	19.77	C	Temperature
GC-AP-MW-29	6/5/2018 12:22	2.28	NTU	Turbidity
GC-AP-MW-29	6/5/2018 12:27	20	uS/cm	Conductivity
GC-AP-MW-29	6/5/2018 12:27	5.95	ft	Depth to Water Detail
GC-AP-MW-29	6/5/2018 12:27	8.53	mg/L	DO
GC-AP-MW-29	6/5/2018 12:27	104.1	mv	Oxidation Reduction Potential
GC-AP-MW-29	6/5/2018 12:27	4.89	pH	pH
GC-AP-MW-29	6/5/2018 12:27	19.59	C	Temperature
GC-AP-MW-29	6/5/2018 12:27	1.56	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-30	6/5/2018 13:01	26.7	uS/cm	Conductivity
GC-AP-MW-30	6/5/2018 13:01	7.92	ft	Depth to Water Detail
GC-AP-MW-30	6/5/2018 13:01	8.34	mg/L	DO
GC-AP-MW-30	6/5/2018 13:01	89.3	mv	Oxidation Reduction Potential
GC-AP-MW-30	6/5/2018 13:01	5.08	pH	pH
GC-AP-MW-30	6/5/2018 13:01	20.23	C	Temperature
GC-AP-MW-30	6/5/2018 13:01	1.86	NTU	Turbidity
GC-AP-MW-30	6/5/2018 13:06	26.3	uS/cm	Conductivity
GC-AP-MW-30	6/5/2018 13:06	7.92	ft	Depth to Water Detail
GC-AP-MW-30	6/5/2018 13:06	8.35	mg/L	DO
GC-AP-MW-30	6/5/2018 13:06	90	mv	Oxidation Reduction Potential
GC-AP-MW-30	6/5/2018 13:06	5.07	pH	pH
GC-AP-MW-30	6/5/2018 13:06	19.92	C	Temperature
GC-AP-MW-30	6/5/2018 13:06	1.2	NTU	Turbidity
GC-AP-MW-30	6/5/2018 13:11	26.6	uS/cm	Conductivity
GC-AP-MW-30	6/5/2018 13:11	7.92	ft	Depth to Water Detail
GC-AP-MW-30	6/5/2018 13:11	8.3	mg/L	DO
GC-AP-MW-30	6/5/2018 13:11	89.6	mv	Oxidation Reduction Potential
GC-AP-MW-30	6/5/2018 13:11	5.11	pH	pH
GC-AP-MW-30	6/5/2018 13:11	19.92	C	Temperature
GC-AP-MW-30	6/5/2018 13:11	1.05	NTU	Turbidity
GC-AP-MW-30	6/5/2018 13:16	26.9	uS/cm	Conductivity
GC-AP-MW-30	6/5/2018 13:16	7.92	ft	Depth to Water Detail
GC-AP-MW-30	6/5/2018 13:16	7.92	mg/L	DO
GC-AP-MW-30	6/5/2018 13:16	95.3	mv	Oxidation Reduction Potential
GC-AP-MW-30	6/5/2018 13:16	5.12	pH	pH
GC-AP-MW-30	6/5/2018 13:16	21.99	C	Temperature
GC-AP-MW-30	6/5/2018 13:16	1	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-31	6/5/2018 17:31	84.3	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 17:31	6.45	ft	Depth to Water Detail
GC-AP-MW-31	6/5/2018 17:31	0.98	mg/L	DO
GC-AP-MW-31	6/5/2018 17:31	36.2	mv	Oxidation Reduction Potential
GC-AP-MW-31	6/5/2018 17:31	6	pH	pH
GC-AP-MW-31	6/5/2018 17:31	18.3	C	Temperature
GC-AP-MW-31	6/5/2018 17:31	2.91	NTU	Turbidity
GC-AP-MW-31	6/5/2018 17:36	78.3	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 17:36	6.45	ft	Depth to Water Detail
GC-AP-MW-31	6/5/2018 17:36	0.94	mg/L	DO
GC-AP-MW-31	6/5/2018 17:36	35.6	mv	Oxidation Reduction Potential
GC-AP-MW-31	6/5/2018 17:36	5.98	pH	pH
GC-AP-MW-31	6/5/2018 17:36	18.17	C	Temperature
GC-AP-MW-31	6/5/2018 17:36	1.86	NTU	Turbidity
GC-AP-MW-31	6/5/2018 17:41	76.3	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 17:41	6.45	ft	Depth to Water Detail
GC-AP-MW-31	6/5/2018 17:41	0.94	mg/L	DO
GC-AP-MW-31	6/5/2018 17:41	35.8	mv	Oxidation Reduction Potential
GC-AP-MW-31	6/5/2018 17:41	5.94	pH	pH
GC-AP-MW-31	6/5/2018 17:41	18.1	C	Temperature
GC-AP-MW-31	6/5/2018 17:41	1.87	NTU	Turbidity
GC-AP-MW-31	6/5/2018 17:46	74.9	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 17:46	6.45	ft	Depth to Water Detail
GC-AP-MW-31	6/5/2018 17:46	0.94	mg/L	DO
GC-AP-MW-31	6/5/2018 17:46	33.9	mv	Oxidation Reduction Potential
GC-AP-MW-31	6/5/2018 17:46	5.93	pH	pH
GC-AP-MW-31	6/5/2018 17:46	18.08	C	Temperature
GC-AP-MW-31	6/5/2018 17:46	1.35	NTU	Turbidity
GC-AP-MW-31	6/5/2018 17:51	74	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 17:51	6.45	ft	Depth to Water Detail
GC-AP-MW-31	6/5/2018 17:51	0.93	mg/L	DO
GC-AP-MW-31	6/5/2018 17:51	32.3	mv	Oxidation Reduction Potential
GC-AP-MW-31	6/5/2018 17:51	5.92	pH	pH
GC-AP-MW-31	6/5/2018 17:51	18.03	C	Temperature
GC-AP-MW-31	6/5/2018 17:51	1.04	NTU	Turbidity
GC-AP-MW-31	6/5/2018 17:56	73.4	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 17:56	6.45	ft	Depth to Water Detail
GC-AP-MW-31	6/5/2018 17:56	0.9	mg/L	DO
GC-AP-MW-31	6/5/2018 17:56	29.8	mv	Oxidation Reduction Potential
GC-AP-MW-31	6/5/2018 17:56	5.93	pH	pH
GC-AP-MW-31	6/5/2018 17:56	18.02	C	Temperature
GC-AP-MW-31	6/5/2018 17:56	1.38	NTU	Turbidity
GC-AP-MW-31	6/5/2018 18:02	75.5	uS/cm	Conductivity
GC-AP-MW-31	6/5/2018 18:02	6.45	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-31	6/5/2018 18:02	0.92	mg/L	DO
GC-AP-MW-31	6/5/2018 18:02	30.4	mv	Oxidation Reduction Potention
GC-AP-MW-31	6/5/2018 18:02	5.93	pH	pH
GC-AP-MW-31	6/5/2018 18:02	17.99	C	Temperature
GC-AP-MW-31	6/5/2018 18:02	1.14	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-32	6/5/2018 16:08	73.3	uS/cm	Conductivity
GC-AP-MW-32	6/5/2018 16:08	17.72	ft	Depth to Water Detail
GC-AP-MW-32	6/5/2018 16:08	4.36	mg/L	DO
GC-AP-MW-32	6/5/2018 16:08	47.8	mv	Oxidation Reduction Potential
GC-AP-MW-32	6/5/2018 16:08	6.03	pH	pH
GC-AP-MW-32	6/5/2018 16:08	19.75	C	Temperature
GC-AP-MW-32	6/5/2018 16:08	0.99	NTU	Turbidity
GC-AP-MW-32	6/5/2018 16:13	73.9	uS/cm	Conductivity
GC-AP-MW-32	6/5/2018 16:13	17.72	ft	Depth to Water Detail
GC-AP-MW-32	6/5/2018 16:13	4.32	mg/L	DO
GC-AP-MW-32	6/5/2018 16:13	48.3	mv	Oxidation Reduction Potential
GC-AP-MW-32	6/5/2018 16:13	6.04	pH	pH
GC-AP-MW-32	6/5/2018 16:13	19.62	C	Temperature
GC-AP-MW-32	6/5/2018 16:13	1.18	NTU	Turbidity
GC-AP-MW-32	6/5/2018 16:18	74.4	uS/cm	Conductivity
GC-AP-MW-32	6/5/2018 16:18	17.72	ft	Depth to Water Detail
GC-AP-MW-32	6/5/2018 16:18	4.24	mg/L	DO
GC-AP-MW-32	6/5/2018 16:18	48.7	mv	Oxidation Reduction Potential
GC-AP-MW-32	6/5/2018 16:18	6.05	pH	pH
GC-AP-MW-32	6/5/2018 16:18	19.59	C	Temperature
GC-AP-MW-32	6/5/2018 16:18	1.17	NTU	Turbidity
GC-AP-MW-32	6/5/2018 16:23	74.9	uS/cm	Conductivity
GC-AP-MW-32	6/5/2018 16:23	17.72	ft	Depth to Water Detail
GC-AP-MW-32	6/5/2018 16:23	4.16	mg/L	DO
GC-AP-MW-32	6/5/2018 16:23	48.7	mv	Oxidation Reduction Potential
GC-AP-MW-32	6/5/2018 16:23	6.05	pH	pH
GC-AP-MW-32	6/5/2018 16:23	19.68	C	Temperature
GC-AP-MW-32	6/5/2018 16:23	1.14	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-33	6/5/2018 16:51	110.1	uS/cm	Conductivity
GC-AP-MW-33	6/5/2018 16:51	20.36	ft	Depth to Water Detail
GC-AP-MW-33	6/5/2018 16:51	6.13	mg/L	DO
GC-AP-MW-33	6/5/2018 16:51	105.4	mv	Oxidation Reduction Potential
GC-AP-MW-33	6/5/2018 16:51	4.61	pH	pH
GC-AP-MW-33	6/5/2018 16:51	19.06	C	Temperature
GC-AP-MW-33	6/5/2018 16:51	0.99	NTU	Turbidity
GC-AP-MW-33	6/5/2018 16:56	110.1	uS/cm	Conductivity
GC-AP-MW-33	6/5/2018 16:56	20.36	ft	Depth to Water Detail
GC-AP-MW-33	6/5/2018 16:56	6.13	mg/L	DO
GC-AP-MW-33	6/5/2018 16:56	106.2	mv	Oxidation Reduction Potential
GC-AP-MW-33	6/5/2018 16:56	4.63	pH	pH
GC-AP-MW-33	6/5/2018 16:56	18.79	C	Temperature
GC-AP-MW-33	6/5/2018 16:56	1.05	NTU	Turbidity
GC-AP-MW-33	6/5/2018 17:01	109.7	uS/cm	Conductivity
GC-AP-MW-33	6/5/2018 17:01	20.36	ft	Depth to Water Detail
GC-AP-MW-33	6/5/2018 17:01	6.12	mg/L	DO
GC-AP-MW-33	6/5/2018 17:01	107.1	mv	Oxidation Reduction Potential
GC-AP-MW-33	6/5/2018 17:01	4.63	pH	pH
GC-AP-MW-33	6/5/2018 17:01	18.74	C	Temperature
GC-AP-MW-33	6/5/2018 17:01	1.05	NTU	Turbidity
GC-AP-MW-33	6/5/2018 17:06	109.4	uS/cm	Conductivity
GC-AP-MW-33	6/5/2018 17:06	20.36	ft	Depth to Water Detail
GC-AP-MW-33	6/5/2018 17:06	6.14	mg/L	DO
GC-AP-MW-33	6/5/2018 17:06	108.6	mv	Oxidation Reduction Potential
GC-AP-MW-33	6/5/2018 17:06	4.62	pH	pH
GC-AP-MW-33	6/5/2018 17:06	18.66	C	Temperature
GC-AP-MW-33	6/5/2018 17:06	1.04	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-1	11/6/2018 12:11	1640	uS/cm	Conductivity
GC-AP-MW-1	11/6/2018 12:11	17.71	ft	Depth to Water Detail
GC-AP-MW-1	11/6/2018 12:11	1.03	mg/L	DO
GC-AP-MW-1	11/6/2018 12:11	-1.7	mv	Oxidation Reduction Potention
GC-AP-MW-1	11/6/2018 12:11	5.91	pH	pH
GC-AP-MW-1	11/6/2018 12:11	21.92	C	Temperature
GC-AP-MW-1	11/6/2018 12:11	2.17	NTU	Turbidity
GC-AP-MW-1	11/6/2018 12:16	1650	uS/cm	Conductivity
GC-AP-MW-1	11/6/2018 12:16	17.71	ft	Depth to Water Detail
GC-AP-MW-1	11/6/2018 12:16	0.87	mg/L	DO
GC-AP-MW-1	11/6/2018 12:16	-2.6	mv	Oxidation Reduction Potention
GC-AP-MW-1	11/6/2018 12:16	5.91	pH	pH
GC-AP-MW-1	11/6/2018 12:16	21.86	C	Temperature
GC-AP-MW-1	11/6/2018 12:16	1.66	NTU	Turbidity
GC-AP-MW-1	11/6/2018 12:21	1658.7	uS/cm	Conductivity
GC-AP-MW-1	11/6/2018 12:21	17.71	ft	Depth to Water Detail
GC-AP-MW-1	11/6/2018 12:21	0.79	mg/L	DO
GC-AP-MW-1	11/6/2018 12:21	-4.3	mv	Oxidation Reduction Potention
GC-AP-MW-1	11/6/2018 12:21	5.92	pH	pH
GC-AP-MW-1	11/6/2018 12:21	21.83	C	Temperature
GC-AP-MW-1	11/6/2018 12:21	1.56	NTU	Turbidity
GC-AP-MW-1	11/6/2018 12:26	1681.9	uS/cm	Conductivity
GC-AP-MW-1	11/6/2018 12:26	17.71	ft	Depth to Water Detail
GC-AP-MW-1	11/6/2018 12:26	0.76	mg/L	DO
GC-AP-MW-1	11/6/2018 12:26	-7.2	mv	Oxidation Reduction Potention
GC-AP-MW-1	11/6/2018 12:26	5.94	pH	pH
GC-AP-MW-1	11/6/2018 12:26	21.82	C	Temperature
GC-AP-MW-1	11/6/2018 12:26	1.39	NTU	Turbidity
GC-AP-MW-1	11/6/2018 12:32	1703.4	uS/cm	Conductivity
GC-AP-MW-1	11/6/2018 12:32	17.71	ft	Depth to Water Detail
GC-AP-MW-1	11/6/2018 12:32	0.75	mg/L	DO
GC-AP-MW-1	11/6/2018 12:32	-8.2	mv	Oxidation Reduction Potention
GC-AP-MW-1	11/6/2018 12:32	5.95	pH	pH
GC-AP-MW-1	11/6/2018 12:32	21.82	C	Temperature
GC-AP-MW-1	11/6/2018 12:32	1.31	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-2	11/6/2018 13:18	769.4	uS/cm	Conductivity
GC-AP-MW-2	11/6/2018 13:18	8.19	ft	Depth to Water Detail
GC-AP-MW-2	11/6/2018 13:18	0.71	mg/L	DO
GC-AP-MW-2	11/6/2018 13:18	-17.3	mv	Oxidation Reduction Potention
GC-AP-MW-2	11/6/2018 13:18	6.05	pH	pH
GC-AP-MW-2	11/6/2018 13:18	23.79	C	Temperature
GC-AP-MW-2	11/6/2018 13:18	7.09	NTU	Turbidity
GC-AP-MW-2	11/6/2018 13:23	747.6	uS/cm	Conductivity
GC-AP-MW-2	11/6/2018 13:23	8.19	ft	Depth to Water Detail
GC-AP-MW-2	11/6/2018 13:23	0.63	mg/L	DO
GC-AP-MW-2	11/6/2018 13:23	-17.6	mv	Oxidation Reduction Potention
GC-AP-MW-2	11/6/2018 13:23	6.03	pH	pH
GC-AP-MW-2	11/6/2018 13:23	23.79	C	Temperature
GC-AP-MW-2	11/6/2018 13:23	3.87	NTU	Turbidity
GC-AP-MW-2	11/6/2018 13:28	753.5	uS/cm	Conductivity
GC-AP-MW-2	11/6/2018 13:28	8.19	ft	Depth to Water Detail
GC-AP-MW-2	11/6/2018 13:28	0.6	mg/L	DO
GC-AP-MW-2	11/6/2018 13:28	-15.2	mv	Oxidation Reduction Potention
GC-AP-MW-2	11/6/2018 13:28	6.04	pH	pH
GC-AP-MW-2	11/6/2018 13:28	23.82	C	Temperature
GC-AP-MW-2	11/6/2018 13:28	2.7	NTU	Turbidity
GC-AP-MW-2	11/6/2018 13:33	759	uS/cm	Conductivity
GC-AP-MW-2	11/6/2018 13:33	8.19	ft	Depth to Water Detail
GC-AP-MW-2	11/6/2018 13:33	0.57	mg/L	DO
GC-AP-MW-2	11/6/2018 13:33	-13.7	mv	Oxidation Reduction Potention
GC-AP-MW-2	11/6/2018 13:33	6.04	pH	pH
GC-AP-MW-2	11/6/2018 13:33	23.85	C	Temperature
GC-AP-MW-2	11/6/2018 13:33	2.2	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-3	11/6/2018 15:22	606.5	uS/cm	Conductivity
GC-AP-MW-3	11/6/2018 15:22	8.4	ft	Depth to Water Detail
GC-AP-MW-3	11/6/2018 15:22	0.82	mg/L	DO
GC-AP-MW-3	11/6/2018 15:22	-73.4	mv	Oxidation Reduction Potention
GC-AP-MW-3	11/6/2018 15:22	6.27	pH	pH
GC-AP-MW-3	11/6/2018 15:22	22.66	C	Temperature
GC-AP-MW-3	11/6/2018 15:22	1.16	NTU	Turbidity
GC-AP-MW-3	11/6/2018 15:27	604.4	uS/cm	Conductivity
GC-AP-MW-3	11/6/2018 15:27	8.45	ft	Depth to Water Detail
GC-AP-MW-3	11/6/2018 15:27	0.63	mg/L	DO
GC-AP-MW-3	11/6/2018 15:27	-71.1	mv	Oxidation Reduction Potention
GC-AP-MW-3	11/6/2018 15:27	6.32	pH	pH
GC-AP-MW-3	11/6/2018 15:27	22.67	C	Temperature
GC-AP-MW-3	11/6/2018 15:27	0.85	NTU	Turbidity
GC-AP-MW-3	11/6/2018 15:32	600.5	uS/cm	Conductivity
GC-AP-MW-3	11/6/2018 15:32	8.55	ft	Depth to Water Detail
GC-AP-MW-3	11/6/2018 15:32	0.54	mg/L	DO
GC-AP-MW-3	11/6/2018 15:32	-69.3	mv	Oxidation Reduction Potention
GC-AP-MW-3	11/6/2018 15:32	6.34	pH	pH
GC-AP-MW-3	11/6/2018 15:32	22.67	C	Temperature
GC-AP-MW-3	11/6/2018 15:32	1.43	NTU	Turbidity
GC-AP-MW-3	11/6/2018 15:37	600	uS/cm	Conductivity
GC-AP-MW-3	11/6/2018 15:37	8.55	ft	Depth to Water Detail
GC-AP-MW-3	11/6/2018 15:37	0.54	mg/L	DO
GC-AP-MW-3	11/6/2018 15:37	-66.8	mv	Oxidation Reduction Potention
GC-AP-MW-3	11/6/2018 15:37	6.34	pH	pH
GC-AP-MW-3	11/6/2018 15:37	22.65	C	Temperature
GC-AP-MW-3	11/6/2018 15:37	1.41	NTU	Turbidity
GC-AP-MW-3	11/6/2018 15:42	599.9	uS/cm	Conductivity
GC-AP-MW-3	11/6/2018 15:42	8.55	ft	Depth to Water Detail
GC-AP-MW-3	11/6/2018 15:42	0.5	mg/L	DO
GC-AP-MW-3	11/6/2018 15:42	-64.9	mv	Oxidation Reduction Potention
GC-AP-MW-3	11/6/2018 15:42	6.34	pH	pH
GC-AP-MW-3	11/6/2018 15:42	22.63	C	Temperature
GC-AP-MW-3	11/6/2018 15:42	0.78	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-5	11/6/2018 15:28	672.5	uS/cm	Conductivity
GC-AP-MW-5	11/6/2018 15:28	12.42	ft	Depth to Water Detail
GC-AP-MW-5	11/6/2018 15:28	0.82	mg/L	DO
GC-AP-MW-5	11/6/2018 15:28	-94.9	mv	Oxidation Reduction Potention
GC-AP-MW-5	11/6/2018 15:28	6.63	pH	pH
GC-AP-MW-5	11/6/2018 15:28	21.73	C	Temperature
GC-AP-MW-5	11/6/2018 15:28	1.15	NTU	Turbidity
GC-AP-MW-5	11/6/2018 15:33	673.3	uS/cm	Conductivity
GC-AP-MW-5	11/6/2018 15:33	12.42	ft	Depth to Water Detail
GC-AP-MW-5	11/6/2018 15:33	0.7	mg/L	DO
GC-AP-MW-5	11/6/2018 15:33	-94.6	mv	Oxidation Reduction Potention
GC-AP-MW-5	11/6/2018 15:33	6.64	pH	pH
GC-AP-MW-5	11/6/2018 15:33	21.73	C	Temperature
GC-AP-MW-5	11/6/2018 15:33	1	NTU	Turbidity
GC-AP-MW-5	11/6/2018 15:38	676.4	uS/cm	Conductivity
GC-AP-MW-5	11/6/2018 15:38	12.42	ft	Depth to Water Detail
GC-AP-MW-5	11/6/2018 15:38	0.64	mg/L	DO
GC-AP-MW-5	11/6/2018 15:38	-94.3	mv	Oxidation Reduction Potention
GC-AP-MW-5	11/6/2018 15:38	6.65	pH	pH
GC-AP-MW-5	11/6/2018 15:38	21.7	C	Temperature
GC-AP-MW-5	11/6/2018 15:38	1.03	NTU	Turbidity
GC-AP-MW-5	11/6/2018 15:43	678.8	uS/cm	Conductivity
GC-AP-MW-5	11/6/2018 15:43	12.42	ft	Depth to Water Detail
GC-AP-MW-5	11/6/2018 15:43	0.61	mg/L	DO
GC-AP-MW-5	11/6/2018 15:43	-93.1	mv	Oxidation Reduction Potention
GC-AP-MW-5	11/6/2018 15:43	6.65	pH	pH
GC-AP-MW-5	11/6/2018 15:43	21.69	C	Temperature
GC-AP-MW-5	11/6/2018 15:43	0.89	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-6	11/7/2018 9:48	853.2	uS/cm	Conductivity
GC-AP-MW-6	11/7/2018 9:48	6.5	ft	Depth to Water Detail
GC-AP-MW-6	11/7/2018 9:48	0.87	mg/L	DO
GC-AP-MW-6	11/7/2018 9:48	53.3	mv	Oxidation Reduction Potention
GC-AP-MW-6	11/7/2018 9:48	6.49	pH	pH
GC-AP-MW-6	11/7/2018 9:48	20.35	C	Temperature
GC-AP-MW-6	11/7/2018 9:48	0.83	NTU	Turbidity
GC-AP-MW-6	11/7/2018 9:53	898.1	uS/cm	Conductivity
GC-AP-MW-6	11/7/2018 9:53	6.5	ft	Depth to Water Detail
GC-AP-MW-6	11/7/2018 9:53	0.74	mg/L	DO
GC-AP-MW-6	11/7/2018 9:53	57	mv	Oxidation Reduction Potention
GC-AP-MW-6	11/7/2018 9:53	6.48	pH	pH
GC-AP-MW-6	11/7/2018 9:53	20.3	C	Temperature
GC-AP-MW-6	11/7/2018 9:53	0.91	NTU	Turbidity
GC-AP-MW-6	11/7/2018 9:58	917.3	uS/cm	Conductivity
GC-AP-MW-6	11/7/2018 9:58	6.5	ft	Depth to Water Detail
GC-AP-MW-6	11/7/2018 9:58	0.68	mg/L	DO
GC-AP-MW-6	11/7/2018 9:58	57.3	mv	Oxidation Reduction Potention
GC-AP-MW-6	11/7/2018 9:58	6.48	pH	pH
GC-AP-MW-6	11/7/2018 9:58	20.26	C	Temperature
GC-AP-MW-6	11/7/2018 9:58	0.65	NTU	Turbidity
GC-AP-MW-6	11/7/2018 10:03	906.2	uS/cm	Conductivity
GC-AP-MW-6	11/7/2018 10:03	6.5	ft	Depth to Water Detail
GC-AP-MW-6	11/7/2018 10:03	0.63	mg/L	DO
GC-AP-MW-6	11/7/2018 10:03	54.9	mv	Oxidation Reduction Potention
GC-AP-MW-6	11/7/2018 10:03	6.48	pH	pH
GC-AP-MW-6	11/7/2018 10:03	20.26	C	Temperature
GC-AP-MW-6	11/7/2018 10:03	0.75	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-7	11/7/2018 10:29	1412.1	uS/cm	Conductivity
GC-AP-MW-7	11/7/2018 10:29	10.74	ft	Depth to Water Detail
GC-AP-MW-7	11/7/2018 10:29	0.87	mg/L	DO
GC-AP-MW-7	11/7/2018 10:29	29	mv	Oxidation Reduction Potention
GC-AP-MW-7	11/7/2018 10:29	6.43	pH	pH
GC-AP-MW-7	11/7/2018 10:29	20.57	C	Temperature
GC-AP-MW-7	11/7/2018 10:29	0.55	NTU	Turbidity
GC-AP-MW-7	11/7/2018 10:34	1471.1	uS/cm	Conductivity
GC-AP-MW-7	11/7/2018 10:34	10.74	ft	Depth to Water Detail
GC-AP-MW-7	11/7/2018 10:34	0.73	mg/L	DO
GC-AP-MW-7	11/7/2018 10:34	41.7	mv	Oxidation Reduction Potention
GC-AP-MW-7	11/7/2018 10:34	6.38	pH	pH
GC-AP-MW-7	11/7/2018 10:34	20.62	C	Temperature
GC-AP-MW-7	11/7/2018 10:34	1.09	NTU	Turbidity
GC-AP-MW-7	11/7/2018 10:39	1473.2	uS/cm	Conductivity
GC-AP-MW-7	11/7/2018 10:39	10.74	ft	Depth to Water Detail
GC-AP-MW-7	11/7/2018 10:39	0.65	mg/L	DO
GC-AP-MW-7	11/7/2018 10:39	44.4	mv	Oxidation Reduction Potention
GC-AP-MW-7	11/7/2018 10:39	6.37	pH	pH
GC-AP-MW-7	11/7/2018 10:39	20.62	C	Temperature
GC-AP-MW-7	11/7/2018 10:39	0.69	NTU	Turbidity
GC-AP-MW-7	11/7/2018 10:44	1471.4	uS/cm	Conductivity
GC-AP-MW-7	11/7/2018 10:44	10.74	ft	Depth to Water Detail
GC-AP-MW-7	11/7/2018 10:44	0.61	mg/L	DO
GC-AP-MW-7	11/7/2018 10:44	43.7	mv	Oxidation Reduction Potention
GC-AP-MW-7	11/7/2018 10:44	6.37	pH	pH
GC-AP-MW-7	11/7/2018 10:44	20.61	C	Temperature
GC-AP-MW-7	11/7/2018 10:44	0.95	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-8	11/7/2018 11:05	940.2	uS/cm	Conductivity
GC-AP-MW-8	11/7/2018 11:05	10.63	ft	Depth to Water Detail
GC-AP-MW-8	11/7/2018 11:05	0.84	mg/L	DO
GC-AP-MW-8	11/7/2018 11:05	97.7	mv	Oxidation Reduction Potention
GC-AP-MW-8	11/7/2018 11:05	6.32	pH	pH
GC-AP-MW-8	11/7/2018 11:05	20.35	C	Temperature
GC-AP-MW-8	11/7/2018 11:05	0.96	NTU	Turbidity
GC-AP-MW-8	11/7/2018 11:10	926.4	uS/cm	Conductivity
GC-AP-MW-8	11/7/2018 11:10	10.63	ft	Depth to Water Detail
GC-AP-MW-8	11/7/2018 11:10	0.66	mg/L	DO
GC-AP-MW-8	11/7/2018 11:10	95.1	mv	Oxidation Reduction Potention
GC-AP-MW-8	11/7/2018 11:10	6.31	pH	pH
GC-AP-MW-8	11/7/2018 11:10	20.35	C	Temperature
GC-AP-MW-8	11/7/2018 11:10	0.93	NTU	Turbidity
GC-AP-MW-8	11/7/2018 11:15	914.5	uS/cm	Conductivity
GC-AP-MW-8	11/7/2018 11:15	10.63	ft	Depth to Water Detail
GC-AP-MW-8	11/7/2018 11:15	0.58	mg/L	DO
GC-AP-MW-8	11/7/2018 11:15	94.4	mv	Oxidation Reduction Potention
GC-AP-MW-8	11/7/2018 11:15	6.31	pH	pH
GC-AP-MW-8	11/7/2018 11:15	20.35	C	Temperature
GC-AP-MW-8	11/7/2018 11:15	0.9	NTU	Turbidity
GC-AP-MW-8	11/7/2018 11:21	911.5	uS/cm	Conductivity
GC-AP-MW-8	11/7/2018 11:21	10.63	ft	Depth to Water Detail
GC-AP-MW-8	11/7/2018 11:21	0.56	mg/L	DO
GC-AP-MW-8	11/7/2018 11:21	93.7	mv	Oxidation Reduction Potention
GC-AP-MW-8	11/7/2018 11:21	6.31	pH	pH
GC-AP-MW-8	11/7/2018 11:21	20.35	C	Temperature
GC-AP-MW-8	11/7/2018 11:21	0.91	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-9	11/7/2018 10:10	898.3	uS/cm	Conductivity
GC-AP-MW-9	11/7/2018 10:10	8.88	ft	Depth to Water Detail
GC-AP-MW-9	11/7/2018 10:10	0.75	mg/L	DO
GC-AP-MW-9	11/7/2018 10:10	-27	mv	Oxidation Reduction Potention
GC-AP-MW-9	11/7/2018 10:10	6.49	pH	pH
GC-AP-MW-9	11/7/2018 10:10	20.12	C	Temperature
GC-AP-MW-9	11/7/2018 10:10	4.5	NTU	Turbidity
GC-AP-MW-9	11/7/2018 10:15	903.8	uS/cm	Conductivity
GC-AP-MW-9	11/7/2018 10:15	8.88	ft	Depth to Water Detail
GC-AP-MW-9	11/7/2018 10:15	0.58	mg/L	DO
GC-AP-MW-9	11/7/2018 10:15	-29.3	mv	Oxidation Reduction Potention
GC-AP-MW-9	11/7/2018 10:15	6.49	pH	pH
GC-AP-MW-9	11/7/2018 10:15	20.13	C	Temperature
GC-AP-MW-9	11/7/2018 10:15	3.25	NTU	Turbidity
GC-AP-MW-9	11/7/2018 10:20	904.5	uS/cm	Conductivity
GC-AP-MW-9	11/7/2018 10:20	8.88	ft	Depth to Water Detail
GC-AP-MW-9	11/7/2018 10:20	0.51	mg/L	DO
GC-AP-MW-9	11/7/2018 10:20	-30.8	mv	Oxidation Reduction Potention
GC-AP-MW-9	11/7/2018 10:20	6.48	pH	pH
GC-AP-MW-9	11/7/2018 10:20	20.13	C	Temperature
GC-AP-MW-9	11/7/2018 10:20	1.47	NTU	Turbidity
GC-AP-MW-9	11/7/2018 10:25	910.7	uS/cm	Conductivity
GC-AP-MW-9	11/7/2018 10:25	8.88	ft	Depth to Water Detail
GC-AP-MW-9	11/7/2018 10:25	0.49	mg/L	DO
GC-AP-MW-9	11/7/2018 10:25	-32.1	mv	Oxidation Reduction Potention
GC-AP-MW-9	11/7/2018 10:25	6.49	pH	pH
GC-AP-MW-9	11/7/2018 10:25	20.13	C	Temperature
GC-AP-MW-9	11/7/2018 10:25	1.08	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-10	11/7/2018 9:04	646.9	uS/cm	Conductivity
GC-AP-MW-10	11/7/2018 9:04	5.08	ft	Depth to Water Detail
GC-AP-MW-10	11/7/2018 9:04	0.52	mg/L	DO
GC-AP-MW-10	11/7/2018 9:04	-55.4	mv	Oxidation Reduction Potention
GC-AP-MW-10	11/7/2018 9:04	6.52	pH	pH
GC-AP-MW-10	11/7/2018 9:04	19.71	C	Temperature
GC-AP-MW-10	11/7/2018 9:04	26.9	NTU	Turbidity
GC-AP-MW-10	11/7/2018 9:09	622.7	uS/cm	Conductivity
GC-AP-MW-10	11/7/2018 9:09	5.08	ft	Depth to Water Detail
GC-AP-MW-10	11/7/2018 9:09	0.39	mg/L	DO
GC-AP-MW-10	11/7/2018 9:09	-53.7	mv	Oxidation Reduction Potention
GC-AP-MW-10	11/7/2018 9:09	6.52	pH	pH
GC-AP-MW-10	11/7/2018 9:09	19.68	C	Temperature
GC-AP-MW-10	11/7/2018 9:09	14.7	NTU	Turbidity
GC-AP-MW-10	11/7/2018 9:14	625.9	uS/cm	Conductivity
GC-AP-MW-10	11/7/2018 9:14	5.08	ft	Depth to Water Detail
GC-AP-MW-10	11/7/2018 9:14	0.35	mg/L	DO
GC-AP-MW-10	11/7/2018 9:14	-54.6	mv	Oxidation Reduction Potention
GC-AP-MW-10	11/7/2018 9:14	6.51	pH	pH
GC-AP-MW-10	11/7/2018 9:14	19.68	C	Temperature
GC-AP-MW-10	11/7/2018 9:14	7.75	NTU	Turbidity
GC-AP-MW-10	11/7/2018 9:19	620.4	uS/cm	Conductivity
GC-AP-MW-10	11/7/2018 9:19	5.08	ft	Depth to Water Detail
GC-AP-MW-10	11/7/2018 9:19	0.34	mg/L	DO
GC-AP-MW-10	11/7/2018 9:19	-54.3	mv	Oxidation Reduction Potention
GC-AP-MW-10	11/7/2018 9:19	6.51	pH	pH
GC-AP-MW-10	11/7/2018 9:19	19.68	C	Temperature
GC-AP-MW-10	11/7/2018 9:19	2.74	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-11	11/5/2018 12:18	336.9	uS/cm	Conductivity
GC-AP-MW-11	11/5/2018 12:18	17.17	ft	Depth to Water Detail
GC-AP-MW-11	11/5/2018 12:18	1.07	mg/L	DO
GC-AP-MW-11	11/5/2018 12:18	-4.8	mv	Oxidation Reduction Potention
GC-AP-MW-11	11/5/2018 12:18	6.27	pH	pH
GC-AP-MW-11	11/5/2018 12:18	23.99	C	Temperature
GC-AP-MW-11	11/5/2018 12:18	1.16	NTU	Turbidity
GC-AP-MW-11	11/5/2018 12:23	336.3	uS/cm	Conductivity
GC-AP-MW-11	11/5/2018 12:23	17.17	ft	Depth to Water Detail
GC-AP-MW-11	11/5/2018 12:23	0.9	mg/L	DO
GC-AP-MW-11	11/5/2018 12:23	-3.3	mv	Oxidation Reduction Potention
GC-AP-MW-11	11/5/2018 12:23	6.26	pH	pH
GC-AP-MW-11	11/5/2018 12:23	23.88	C	Temperature
GC-AP-MW-11	11/5/2018 12:23	0.94	NTU	Turbidity
GC-AP-MW-11	11/5/2018 12:28	336	uS/cm	Conductivity
GC-AP-MW-11	11/5/2018 12:28	17.17	ft	Depth to Water Detail
GC-AP-MW-11	11/5/2018 12:28	0.81	mg/L	DO
GC-AP-MW-11	11/5/2018 12:28	-2	mv	Oxidation Reduction Potention
GC-AP-MW-11	11/5/2018 12:28	6.25	pH	pH
GC-AP-MW-11	11/5/2018 12:28	23.81	C	Temperature
GC-AP-MW-11	11/5/2018 12:28	0.86	NTU	Turbidity
GC-AP-MW-11	11/5/2018 12:33	335.8	uS/cm	Conductivity
GC-AP-MW-11	11/5/2018 12:33	17.17	ft	Depth to Water Detail
GC-AP-MW-11	11/5/2018 12:33	0.78	mg/L	DO
GC-AP-MW-11	11/5/2018 12:33	-1.8	mv	Oxidation Reduction Potention
GC-AP-MW-11	11/5/2018 12:33	6.26	pH	pH
GC-AP-MW-11	11/5/2018 12:33	23.79	C	Temperature
GC-AP-MW-11	11/5/2018 12:33	0.83	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-12	11/5/2018 14:24	369.2	uS/cm	Conductivity
GC-AP-MW-12	11/5/2018 14:24	18.23	ft	Depth to Water Detail
GC-AP-MW-12	11/5/2018 14:24	1.2	mg/L	DO
GC-AP-MW-12	11/5/2018 14:24	83.7	mv	Oxidation Reduction Potention
GC-AP-MW-12	11/5/2018 14:24	6.81	pH	pH
GC-AP-MW-12	11/5/2018 14:24	27.54	C	Temperature
GC-AP-MW-12	11/5/2018 14:24	0.89	NTU	Turbidity
GC-AP-MW-12	11/5/2018 14:29	368.8	uS/cm	Conductivity
GC-AP-MW-12	11/5/2018 14:29	18.23	ft	Depth to Water Detail
GC-AP-MW-12	11/5/2018 14:29	1.03	mg/L	DO
GC-AP-MW-12	11/5/2018 14:29	80.8	mv	Oxidation Reduction Potention
GC-AP-MW-12	11/5/2018 14:29	6.8	pH	pH
GC-AP-MW-12	11/5/2018 14:29	27.58	C	Temperature
GC-AP-MW-12	11/5/2018 14:29	0.88	NTU	Turbidity
GC-AP-MW-12	11/5/2018 14:34	368.4	uS/cm	Conductivity
GC-AP-MW-12	11/5/2018 14:34	18.23	ft	Depth to Water Detail
GC-AP-MW-12	11/5/2018 14:34	0.96	mg/L	DO
GC-AP-MW-12	11/5/2018 14:34	79.6	mv	Oxidation Reduction Potention
GC-AP-MW-12	11/5/2018 14:34	6.8	pH	pH
GC-AP-MW-12	11/5/2018 14:34	27.61	C	Temperature
GC-AP-MW-12	11/5/2018 14:34	0.88	NTU	Turbidity
GC-AP-MW-12	11/5/2018 14:39	367.9	uS/cm	Conductivity
GC-AP-MW-12	11/5/2018 14:39	18.23	ft	Depth to Water Detail
GC-AP-MW-12	11/5/2018 14:39	0.91	mg/L	DO
GC-AP-MW-12	11/5/2018 14:39	78.9	mv	Oxidation Reduction Potention
GC-AP-MW-12	11/5/2018 14:39	6.81	pH	pH
GC-AP-MW-12	11/5/2018 14:39	27.54	C	Temperature
GC-AP-MW-12	11/5/2018 14:39	0.86	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-13	11/5/2018 15:27	376.2	uS/cm	Conductivity
GC-AP-MW-13	11/5/2018 15:27	20.99	ft	Depth to Water Detail
GC-AP-MW-13	11/5/2018 15:27	1.07	mg/L	DO
GC-AP-MW-13	11/5/2018 15:27	80.9	mv	Oxidation Reduction Potention
GC-AP-MW-13	11/5/2018 15:27	6.68	pH	pH
GC-AP-MW-13	11/5/2018 15:27	27.85	C	Temperature
GC-AP-MW-13	11/5/2018 15:27	1.87	NTU	Turbidity
GC-AP-MW-13	11/5/2018 15:32	374.8	uS/cm	Conductivity
GC-AP-MW-13	11/5/2018 15:32	20.99	ft	Depth to Water Detail
GC-AP-MW-13	11/5/2018 15:32	1.08	mg/L	DO
GC-AP-MW-13	11/5/2018 15:32	81.5	mv	Oxidation Reduction Potention
GC-AP-MW-13	11/5/2018 15:32	6.67	pH	pH
GC-AP-MW-13	11/5/2018 15:32	27.74	C	Temperature
GC-AP-MW-13	11/5/2018 15:32	1.29	NTU	Turbidity
GC-AP-MW-13	11/5/2018 15:37	374.7	uS/cm	Conductivity
GC-AP-MW-13	11/5/2018 15:37	20.99	ft	Depth to Water Detail
GC-AP-MW-13	11/5/2018 15:37	0.98	mg/L	DO
GC-AP-MW-13	11/5/2018 15:37	80	mv	Oxidation Reduction Potention
GC-AP-MW-13	11/5/2018 15:37	6.69	pH	pH
GC-AP-MW-13	11/5/2018 15:37	27.71	C	Temperature
GC-AP-MW-13	11/5/2018 15:37	1.15	NTU	Turbidity
GC-AP-MW-13	11/5/2018 15:42	374.1	uS/cm	Conductivity
GC-AP-MW-13	11/5/2018 15:42	20.99	ft	Depth to Water Detail
GC-AP-MW-13	11/5/2018 15:42	0.98	mg/L	DO
GC-AP-MW-13	11/5/2018 15:42	80	mv	Oxidation Reduction Potention
GC-AP-MW-13	11/5/2018 15:42	6.69	pH	pH
GC-AP-MW-13	11/5/2018 15:42	27.66	C	Temperature
GC-AP-MW-13	11/5/2018 15:42	1.08	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-14	11/7/2018 7:59	834.8	uS/cm	Conductivity
GC-AP-MW-14	11/7/2018 7:59	8.56	ft	Depth to Water Detail
GC-AP-MW-14	11/7/2018 7:59	0.6	mg/L	DO
GC-AP-MW-14	11/7/2018 7:59	-37.9	mv	Oxidation Reduction Potention
GC-AP-MW-14	11/7/2018 7:59	6.43	pH	pH
GC-AP-MW-14	11/7/2018 7:59	20.9	C	Temperature
GC-AP-MW-14	11/7/2018 7:59	6.56	NTU	Turbidity
GC-AP-MW-14	11/7/2018 8:04	835	uS/cm	Conductivity
GC-AP-MW-14	11/7/2018 8:04	8.56	ft	Depth to Water Detail
GC-AP-MW-14	11/7/2018 8:04	0.51	mg/L	DO
GC-AP-MW-14	11/7/2018 8:04	-38.6	mv	Oxidation Reduction Potention
GC-AP-MW-14	11/7/2018 8:04	6.42	pH	pH
GC-AP-MW-14	11/7/2018 8:04	20.92	C	Temperature
GC-AP-MW-14	11/7/2018 8:04	4.84	NTU	Turbidity
GC-AP-MW-14	11/7/2018 8:09	834.8	uS/cm	Conductivity
GC-AP-MW-14	11/7/2018 8:09	8.56	ft	Depth to Water Detail
GC-AP-MW-14	11/7/2018 8:09	0.47	mg/L	DO
GC-AP-MW-14	11/7/2018 8:09	-38.7	mv	Oxidation Reduction Potention
GC-AP-MW-14	11/7/2018 8:09	6.42	pH	pH
GC-AP-MW-14	11/7/2018 8:09	20.93	C	Temperature
GC-AP-MW-14	11/7/2018 8:09	4.66	NTU	Turbidity
GC-AP-MW-14	11/7/2018 8:14	833.7	uS/cm	Conductivity
GC-AP-MW-14	11/7/2018 8:14	8.56	ft	Depth to Water Detail
GC-AP-MW-14	11/7/2018 8:14	0.45	mg/L	DO
GC-AP-MW-14	11/7/2018 8:14	-39.1	mv	Oxidation Reduction Potention
GC-AP-MW-14	11/7/2018 8:14	6.42	pH	pH
GC-AP-MW-14	11/7/2018 8:14	20.93	C	Temperature
GC-AP-MW-14	11/7/2018 8:14	4.14	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-15	11/6/2018 7:54	515.2	uS/cm	Conductivity
GC-AP-MW-15	11/6/2018 7:54	17.25	ft	Depth to Water Detail
GC-AP-MW-15	11/6/2018 7:54	1	mg/L	DO
GC-AP-MW-15	11/6/2018 7:54	52.5	mv	Oxidation Reduction Potention
GC-AP-MW-15	11/6/2018 7:54	6.09	pH	pH
GC-AP-MW-15	11/6/2018 7:54	19.23	C	Temperature
GC-AP-MW-15	11/6/2018 7:54	0.94	NTU	Turbidity
GC-AP-MW-15	11/6/2018 7:59	517.8	uS/cm	Conductivity
GC-AP-MW-15	11/6/2018 7:59	17.26	ft	Depth to Water Detail
GC-AP-MW-15	11/6/2018 7:59	0.85	mg/L	DO
GC-AP-MW-15	11/6/2018 7:59	35.3	mv	Oxidation Reduction Potention
GC-AP-MW-15	11/6/2018 7:59	6.09	pH	pH
GC-AP-MW-15	11/6/2018 7:59	19.19	C	Temperature
GC-AP-MW-15	11/6/2018 7:59	0.87	NTU	Turbidity
GC-AP-MW-15	11/6/2018 8:04	515	uS/cm	Conductivity
GC-AP-MW-15	11/6/2018 8:04	17.26	ft	Depth to Water Detail
GC-AP-MW-15	11/6/2018 8:04	0.76	mg/L	DO
GC-AP-MW-15	11/6/2018 8:04	37	mv	Oxidation Reduction Potention
GC-AP-MW-15	11/6/2018 8:04	6.1	pH	pH
GC-AP-MW-15	11/6/2018 8:04	19.19	C	Temperature
GC-AP-MW-15	11/6/2018 8:04	0.84	NTU	Turbidity
GC-AP-MW-15	11/6/2018 8:09	514	uS/cm	Conductivity
GC-AP-MW-15	11/6/2018 8:09	17.26	ft	Depth to Water Detail
GC-AP-MW-15	11/6/2018 8:09	0.72	mg/L	DO
GC-AP-MW-15	11/6/2018 8:09	34.4	mv	Oxidation Reduction Potention
GC-AP-MW-15	11/6/2018 8:09	6.09	pH	pH
GC-AP-MW-15	11/6/2018 8:09	19.19	C	Temperature
GC-AP-MW-15	11/6/2018 8:09	0.87	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-16	11/6/2018 8:53	691.1	uS/cm	Conductivity
GC-AP-MW-16	11/6/2018 8:53	33.95	ft	Depth to Water Detail
GC-AP-MW-16	11/6/2018 8:53	0.3	mg/L	DO
GC-AP-MW-16	11/6/2018 8:53	-44.5	mv	Oxidation Reduction Potention
GC-AP-MW-16	11/6/2018 8:53	6.35	pH	pH
GC-AP-MW-16	11/6/2018 8:53	19.86	C	Temperature
GC-AP-MW-16	11/6/2018 8:53	22.6	NTU	Turbidity
GC-AP-MW-16	11/6/2018 8:58	702.9	uS/cm	Conductivity
GC-AP-MW-16	11/6/2018 8:58	33.96	ft	Depth to Water Detail
GC-AP-MW-16	11/6/2018 8:58	0.26	mg/L	DO
GC-AP-MW-16	11/6/2018 8:58	-45.1	mv	Oxidation Reduction Potention
GC-AP-MW-16	11/6/2018 8:58	6.36	pH	pH
GC-AP-MW-16	11/6/2018 8:58	19.87	C	Temperature
GC-AP-MW-16	11/6/2018 8:58	13.8	NTU	Turbidity
GC-AP-MW-16	11/6/2018 9:03	716.2	uS/cm	Conductivity
GC-AP-MW-16	11/6/2018 9:03	33.96	ft	Depth to Water Detail
GC-AP-MW-16	11/6/2018 9:03	0.23	mg/L	DO
GC-AP-MW-16	11/6/2018 9:03	-45.3	mv	Oxidation Reduction Potention
GC-AP-MW-16	11/6/2018 9:03	6.36	pH	pH
GC-AP-MW-16	11/6/2018 9:03	19.88	C	Temperature
GC-AP-MW-16	11/6/2018 9:03	9.07	NTU	Turbidity
GC-AP-MW-16	11/6/2018 9:08	724	uS/cm	Conductivity
GC-AP-MW-16	11/6/2018 9:08	33.96	ft	Depth to Water Detail
GC-AP-MW-16	11/6/2018 9:08	0.22	mg/L	DO
GC-AP-MW-16	11/6/2018 9:08	-44.9	mv	Oxidation Reduction Potention
GC-AP-MW-16	11/6/2018 9:08	6.36	pH	pH
GC-AP-MW-16	11/6/2018 9:08	19.85	C	Temperature
GC-AP-MW-16	11/6/2018 9:08	6.93	NTU	Turbidity
GC-AP-MW-16	11/6/2018 9:13	729.5	uS/cm	Conductivity
GC-AP-MW-16	11/6/2018 9:13	33.96	ft	Depth to Water Detail
GC-AP-MW-16	11/6/2018 9:13	0.21	mg/L	DO
GC-AP-MW-16	11/6/2018 9:13	-44.1	mv	Oxidation Reduction Potention
GC-AP-MW-16	11/6/2018 9:13	6.37	pH	pH
GC-AP-MW-16	11/6/2018 9:13	19.81	C	Temperature
GC-AP-MW-16	11/6/2018 9:13	4.74	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-17	11/6/2018 9:57	984.6	uS/cm	Conductivity
GC-AP-MW-17	11/6/2018 9:57	30.54	ft	Depth to Water Detail
GC-AP-MW-17	11/6/2018 9:57	0.21	mg/L	DO
GC-AP-MW-17	11/6/2018 9:57	-75.9	mv	Oxidation Reduction Potention
GC-AP-MW-17	11/6/2018 9:57	6.42	pH	pH
GC-AP-MW-17	11/6/2018 9:57	20.3	C	Temperature
GC-AP-MW-17	11/6/2018 9:57	1.78	NTU	Turbidity
GC-AP-MW-17	11/6/2018 10:02	977.7	uS/cm	Conductivity
GC-AP-MW-17	11/6/2018 10:02	30.55	ft	Depth to Water Detail
GC-AP-MW-17	11/6/2018 10:02	0.19	mg/L	DO
GC-AP-MW-17	11/6/2018 10:02	-77.8	mv	Oxidation Reduction Potention
GC-AP-MW-17	11/6/2018 10:02	6.43	pH	pH
GC-AP-MW-17	11/6/2018 10:02	20.3	C	Temperature
GC-AP-MW-17	11/6/2018 10:02	1.19	NTU	Turbidity
GC-AP-MW-17	11/6/2018 10:07	972.9	uS/cm	Conductivity
GC-AP-MW-17	11/6/2018 10:07	30.55	ft	Depth to Water Detail
GC-AP-MW-17	11/6/2018 10:07	0.18	mg/L	DO
GC-AP-MW-17	11/6/2018 10:07	-81.1	mv	Oxidation Reduction Potention
GC-AP-MW-17	11/6/2018 10:07	6.46	pH	pH
GC-AP-MW-17	11/6/2018 10:07	20.31	C	Temperature
GC-AP-MW-17	11/6/2018 10:07	1.31	NTU	Turbidity
GC-AP-MW-17	11/6/2018 10:12	966.7	uS/cm	Conductivity
GC-AP-MW-17	11/6/2018 10:12	30.55	ft	Depth to Water Detail
GC-AP-MW-17	11/6/2018 10:12	0.17	mg/L	DO
GC-AP-MW-17	11/6/2018 10:12	-81.9	mv	Oxidation Reduction Potention
GC-AP-MW-17	11/6/2018 10:12	6.47	pH	pH
GC-AP-MW-17	11/6/2018 10:12	20.3	C	Temperature
GC-AP-MW-17	11/6/2018 10:12	1.17	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-18	11/6/2018 11:04	646.9	uS/cm	Conductivity
GC-AP-MW-18	11/6/2018 11:04	29.68	ft	Depth to Water Detail
GC-AP-MW-18	11/6/2018 11:04	0.27	mg/L	DO
GC-AP-MW-18	11/6/2018 11:04	-11	mv	Oxidation Reduction Potention
GC-AP-MW-18	11/6/2018 11:04	6.29	pH	pH
GC-AP-MW-18	11/6/2018 11:04	20.31	C	Temperature
GC-AP-MW-18	11/6/2018 11:04	5.16	NTU	Turbidity
GC-AP-MW-18	11/6/2018 11:09	660.4	uS/cm	Conductivity
GC-AP-MW-18	11/6/2018 11:09	29.68	ft	Depth to Water Detail
GC-AP-MW-18	11/6/2018 11:09	0.23	mg/L	DO
GC-AP-MW-18	11/6/2018 11:09	-12.8	mv	Oxidation Reduction Potention
GC-AP-MW-18	11/6/2018 11:09	6.3	pH	pH
GC-AP-MW-18	11/6/2018 11:09	20.27	C	Temperature
GC-AP-MW-18	11/6/2018 11:09	2.29	NTU	Turbidity
GC-AP-MW-18	11/6/2018 11:14	667.9	uS/cm	Conductivity
GC-AP-MW-18	11/6/2018 11:14	29.68	ft	Depth to Water Detail
GC-AP-MW-18	11/6/2018 11:14	0.21	mg/L	DO
GC-AP-MW-18	11/6/2018 11:14	-13.7	mv	Oxidation Reduction Potention
GC-AP-MW-18	11/6/2018 11:14	6.31	pH	pH
GC-AP-MW-18	11/6/2018 11:14	20.26	C	Temperature
GC-AP-MW-18	11/6/2018 11:14	3.79	NTU	Turbidity
GC-AP-MW-18	11/6/2018 11:19	674.3	uS/cm	Conductivity
GC-AP-MW-18	11/6/2018 11:19	29.68	ft	Depth to Water Detail
GC-AP-MW-18	11/6/2018 11:19	0.2	mg/L	DO
GC-AP-MW-18	11/6/2018 11:19	-14.7	mv	Oxidation Reduction Potention
GC-AP-MW-18	11/6/2018 11:19	6.31	pH	pH
GC-AP-MW-18	11/6/2018 11:19	20.27	C	Temperature
GC-AP-MW-18	11/6/2018 11:19	2.81	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-21	11/5/2018 13:17	368.5	uS/cm	Conductivity
GC-AP-MW-21	11/5/2018 13:17	20.41	ft	Depth to Water Detail
GC-AP-MW-21	11/5/2018 13:17	0.29	mg/L	DO
GC-AP-MW-21	11/5/2018 13:17	9.4	mv	Oxidation Reduction Potention
GC-AP-MW-21	11/5/2018 13:17	6.62	pH	pH
GC-AP-MW-21	11/5/2018 13:17	27.58	C	Temperature
GC-AP-MW-21	11/5/2018 13:17	1.09	NTU	Turbidity
GC-AP-MW-21	11/5/2018 13:22	367.7	uS/cm	Conductivity
GC-AP-MW-21	11/5/2018 13:22	20.41	ft	Depth to Water Detail
GC-AP-MW-21	11/5/2018 13:22	0.24	mg/L	DO
GC-AP-MW-21	11/5/2018 13:22	11.3	mv	Oxidation Reduction Potention
GC-AP-MW-21	11/5/2018 13:22	6.63	pH	pH
GC-AP-MW-21	11/5/2018 13:22	27.66	C	Temperature
GC-AP-MW-21	11/5/2018 13:22	1	NTU	Turbidity
GC-AP-MW-21	11/5/2018 13:27	366.6	uS/cm	Conductivity
GC-AP-MW-21	11/5/2018 13:27	20.41	ft	Depth to Water Detail
GC-AP-MW-21	11/5/2018 13:27	0.28	mg/L	DO
GC-AP-MW-21	11/5/2018 13:27	12.2	mv	Oxidation Reduction Potention
GC-AP-MW-21	11/5/2018 13:27	6.65	pH	pH
GC-AP-MW-21	11/5/2018 13:27	27.64	C	Temperature
GC-AP-MW-21	11/5/2018 13:27	0.88	NTU	Turbidity
GC-AP-MW-21	11/5/2018 13:33	364.7	uS/cm	Conductivity
GC-AP-MW-21	11/5/2018 13:33	20.41	ft	Depth to Water Detail
GC-AP-MW-21	11/5/2018 13:33	0.29	mg/L	DO
GC-AP-MW-21	11/5/2018 13:33	14.2	mv	Oxidation Reduction Potention
GC-AP-MW-21	11/5/2018 13:33	6.66	pH	pH
GC-AP-MW-21	11/5/2018 13:33	27.65	C	Temperature
GC-AP-MW-21	11/5/2018 13:33	0.84	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-23	11/7/2018 8:45	190.6	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 8:45	15.75	ft	Depth to Water Detail
GC-AP-MW-23	11/7/2018 8:45	5.03	mg/L	DO
GC-AP-MW-23	11/7/2018 8:45	87.3	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 8:45	6.36	pH	pH
GC-AP-MW-23	11/7/2018 8:45	22.19	C	Temperature
GC-AP-MW-23	11/7/2018 8:45	5.82	NTU	Turbidity
GC-AP-MW-23	11/7/2018 8:50	181.7	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 8:50	15.75	ft	Depth to Water Detail
GC-AP-MW-23	11/7/2018 8:50	5.16	mg/L	DO
GC-AP-MW-23	11/7/2018 8:50	87.4	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 8:50	6.38	pH	pH
GC-AP-MW-23	11/7/2018 8:50	22.19	C	Temperature
GC-AP-MW-23	11/7/2018 8:50	4.61	NTU	Turbidity
GC-AP-MW-23	11/7/2018 8:55	176	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 8:55	15.75	ft	Depth to Water Detail
GC-AP-MW-23	11/7/2018 8:55	5.29	mg/L	DO
GC-AP-MW-23	11/7/2018 8:55	88.2	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 8:55	6.38	pH	pH
GC-AP-MW-23	11/7/2018 8:55	22.18	C	Temperature
GC-AP-MW-23	11/7/2018 8:55	3.77	NTU	Turbidity
GC-AP-MW-23	11/7/2018 9:00	171.8	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 9:00	15.75	ft	Depth to Water Detail
GC-AP-MW-23	11/7/2018 9:00	5.38	mg/L	DO
GC-AP-MW-23	11/7/2018 9:00	87.5	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 9:00	6.38	pH	pH
GC-AP-MW-23	11/7/2018 9:00	22.22	C	Temperature
GC-AP-MW-23	11/7/2018 9:00	2.31	NTU	Turbidity
GC-AP-MW-23	11/7/2018 9:05	166.5	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 9:05	15.75	ft	Depth to Water Detail
GC-AP-MW-23	11/7/2018 9:05	5.45	mg/L	DO
GC-AP-MW-23	11/7/2018 9:05	83.3	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 9:05	6.38	pH	pH
GC-AP-MW-23	11/7/2018 9:05	22.19	C	Temperature
GC-AP-MW-23	11/7/2018 9:05	1.62	NTU	Turbidity
GC-AP-MW-23	11/7/2018 9:10	163.5	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 9:10	15.75	ft	Depth to Water Detail
GC-AP-MW-23	11/7/2018 9:10	5.48	mg/L	DO
GC-AP-MW-23	11/7/2018 9:10	82.5	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 9:10	6.38	pH	pH
GC-AP-MW-23	11/7/2018 9:10	22.21	C	Temperature
GC-AP-MW-23	11/7/2018 9:10	1.17	NTU	Turbidity
GC-AP-MW-23	11/7/2018 9:15	159.9	uS/cm	Conductivity
GC-AP-MW-23	11/7/2018 9:15	15.75	ft	Depth to Water Detail

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-23	11/7/2018 9:15	5.5	mg/L	DO
GC-AP-MW-23	11/7/2018 9:15	83.2	mv	Oxidation Reduction Potention
GC-AP-MW-23	11/7/2018 9:15	6.37	pH	pH
GC-AP-MW-23	11/7/2018 9:15	22.2	C	Temperature
GC-AP-MW-23	11/7/2018 9:15	1.3	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-24	11/7/2018 7:49	236.2	uS/cm	Conductivity
GC-AP-MW-24	11/7/2018 7:49	19.15	ft	Depth to Water Detail
GC-AP-MW-24	11/7/2018 7:49	5.18	mg/L	DO
GC-AP-MW-24	11/7/2018 7:49	142.7	mv	Oxidation Reduction Potention
GC-AP-MW-24	11/7/2018 7:49	5.27	pH	pH
GC-AP-MW-24	11/7/2018 7:49	21.47	C	Temperature
GC-AP-MW-24	11/7/2018 7:49	7.71	NTU	Turbidity
GC-AP-MW-24	11/7/2018 7:54	235	uS/cm	Conductivity
GC-AP-MW-24	11/7/2018 7:54	19.15	ft	Depth to Water Detail
GC-AP-MW-24	11/7/2018 7:54	5.06	mg/L	DO
GC-AP-MW-24	11/7/2018 7:54	139.1	mv	Oxidation Reduction Potention
GC-AP-MW-24	11/7/2018 7:54	5.29	pH	pH
GC-AP-MW-24	11/7/2018 7:54	21.47	C	Temperature
GC-AP-MW-24	11/7/2018 7:54	1.81	NTU	Turbidity
GC-AP-MW-24	11/7/2018 7:59	234.2	uS/cm	Conductivity
GC-AP-MW-24	11/7/2018 7:59	19.15	ft	Depth to Water Detail
GC-AP-MW-24	11/7/2018 7:59	5.03	mg/L	DO
GC-AP-MW-24	11/7/2018 7:59	133.6	mv	Oxidation Reduction Potention
GC-AP-MW-24	11/7/2018 7:59	5.31	pH	pH
GC-AP-MW-24	11/7/2018 7:59	21.51	C	Temperature
GC-AP-MW-24	11/7/2018 7:59	1.17	NTU	Turbidity
GC-AP-MW-24	11/7/2018 8:04	234.6	uS/cm	Conductivity
GC-AP-MW-24	11/7/2018 8:04	19.15	ft	Depth to Water Detail
GC-AP-MW-24	11/7/2018 8:04	4.99	mg/L	DO
GC-AP-MW-24	11/7/2018 8:04	129.3	mv	Oxidation Reduction Potention
GC-AP-MW-24	11/7/2018 8:04	5.34	pH	pH
GC-AP-MW-24	11/7/2018 8:04	21.51	C	Temperature
GC-AP-MW-24	11/7/2018 8:04	0.71	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-25	11/6/2018 14:23	234.6	uS/cm	Conductivity
GC-AP-MW-25	11/6/2018 14:23	8.4	ft	Depth to Water Detail
GC-AP-MW-25	11/6/2018 14:23	0.75	mg/L	DO
GC-AP-MW-25	11/6/2018 14:23	182.9	mv	Oxidation Reduction Potention
GC-AP-MW-25	11/6/2018 14:23	5.18	pH	pH
GC-AP-MW-25	11/6/2018 14:23	21.41	C	Temperature
GC-AP-MW-25	11/6/2018 14:23	2.26	NTU	Turbidity
GC-AP-MW-25	11/6/2018 14:28	240.1	uS/cm	Conductivity
GC-AP-MW-25	11/6/2018 14:28	8.55	ft	Depth to Water Detail
GC-AP-MW-25	11/6/2018 14:28	0.61	mg/L	DO
GC-AP-MW-25	11/6/2018 14:28	176	mv	Oxidation Reduction Potention
GC-AP-MW-25	11/6/2018 14:28	5.23	pH	pH
GC-AP-MW-25	11/6/2018 14:28	21.3	C	Temperature
GC-AP-MW-25	11/6/2018 14:28	1.08	NTU	Turbidity
GC-AP-MW-25	11/6/2018 14:33	246	uS/cm	Conductivity
GC-AP-MW-25	11/6/2018 14:33	8.6	ft	Depth to Water Detail
GC-AP-MW-25	11/6/2018 14:33	0.56	mg/L	DO
GC-AP-MW-25	11/6/2018 14:33	170.3	mv	Oxidation Reduction Potention
GC-AP-MW-25	11/6/2018 14:33	5.26	pH	pH
GC-AP-MW-25	11/6/2018 14:33	21.21	C	Temperature
GC-AP-MW-25	11/6/2018 14:33	0.96	NTU	Turbidity
GC-AP-MW-25	11/6/2018 14:38	248.7	uS/cm	Conductivity
GC-AP-MW-25	11/6/2018 14:38	8.65	ft	Depth to Water Detail
GC-AP-MW-25	11/6/2018 14:38	0.53	mg/L	DO
GC-AP-MW-25	11/6/2018 14:38	166.2	mv	Oxidation Reduction Potention
GC-AP-MW-25	11/6/2018 14:38	5.28	pH	pH
GC-AP-MW-25	11/6/2018 14:38	21.16	C	Temperature
GC-AP-MW-25	11/6/2018 14:38	1.09	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-26	11/6/2018 14:18	46.3	uS/cm	Conductivity
GC-AP-MW-26	11/6/2018 14:18	10.18	ft	Depth to Water Detail
GC-AP-MW-26	11/6/2018 14:18	4.49	mg/L	DO
GC-AP-MW-26	11/6/2018 14:18	107.7	mv	Oxidation Reduction Potention
GC-AP-MW-26	11/6/2018 14:18	5.51	pH	pH
GC-AP-MW-26	11/6/2018 14:18	20.31	C	Temperature
GC-AP-MW-26	11/6/2018 14:18	1.04	NTU	Turbidity
GC-AP-MW-26	11/6/2018 14:23	46	uS/cm	Conductivity
GC-AP-MW-26	11/6/2018 14:23	10.18	ft	Depth to Water Detail
GC-AP-MW-26	11/6/2018 14:23	4.53	mg/L	DO
GC-AP-MW-26	11/6/2018 14:23	102.9	mv	Oxidation Reduction Potention
GC-AP-MW-26	11/6/2018 14:23	5.53	pH	pH
GC-AP-MW-26	11/6/2018 14:23	20.3	C	Temperature
GC-AP-MW-26	11/6/2018 14:23	1.39	NTU	Turbidity
GC-AP-MW-26	11/6/2018 14:28	45.2	uS/cm	Conductivity
GC-AP-MW-26	11/6/2018 14:28	10.18	ft	Depth to Water Detail
GC-AP-MW-26	11/6/2018 14:28	4.57	mg/L	DO
GC-AP-MW-26	11/6/2018 14:28	100.1	mv	Oxidation Reduction Potention
GC-AP-MW-26	11/6/2018 14:28	5.54	pH	pH
GC-AP-MW-26	11/6/2018 14:28	20.29	C	Temperature
GC-AP-MW-26	11/6/2018 14:28	0.64	NTU	Turbidity
GC-AP-MW-26	11/6/2018 14:33	43.6	uS/cm	Conductivity
GC-AP-MW-26	11/6/2018 14:33	10.18	ft	Depth to Water Detail
GC-AP-MW-26	11/6/2018 14:33	4.57	mg/L	DO
GC-AP-MW-26	11/6/2018 14:33	98.7	mv	Oxidation Reduction Potention
GC-AP-MW-26	11/6/2018 14:33	5.55	pH	pH
GC-AP-MW-26	11/6/2018 14:33	20.3	C	Temperature
GC-AP-MW-26	11/6/2018 14:33	0.84	NTU	Turbidity
GC-AP-MW-26	11/6/2018 14:38	43.5	uS/cm	Conductivity
GC-AP-MW-26	11/6/2018 14:38	10.18	ft	Depth to Water Detail
GC-AP-MW-26	11/6/2018 14:38	4.6	mg/L	DO
GC-AP-MW-26	11/6/2018 14:38	98	mv	Oxidation Reduction Potention
GC-AP-MW-26	11/6/2018 14:38	5.54	pH	pH
GC-AP-MW-26	11/6/2018 14:38	20.24	C	Temperature
GC-AP-MW-26	11/6/2018 14:38	0.93	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-27	11/6/2018 13:33	31	uS/cm	Conductivity
GC-AP-MW-27	11/6/2018 13:33	11.83	ft	Depth to Water Detail
GC-AP-MW-27	11/6/2018 13:33	5	mg/L	DO
GC-AP-MW-27	11/6/2018 13:33	130.6	mv	Oxidation Reduction Potention
GC-AP-MW-27	11/6/2018 13:33	4.97	pH	pH
GC-AP-MW-27	11/6/2018 13:33	20.48	C	Temperature
GC-AP-MW-27	11/6/2018 13:33	0.72	NTU	Turbidity
GC-AP-MW-27	11/6/2018 13:38	30.3	uS/cm	Conductivity
GC-AP-MW-27	11/6/2018 13:38	11.83	ft	Depth to Water Detail
GC-AP-MW-27	11/6/2018 13:38	5.31	mg/L	DO
GC-AP-MW-27	11/6/2018 13:38	128	mv	Oxidation Reduction Potention
GC-AP-MW-27	11/6/2018 13:38	4.92	pH	pH
GC-AP-MW-27	11/6/2018 13:38	20.48	C	Temperature
GC-AP-MW-27	11/6/2018 13:38	0.68	NTU	Turbidity
GC-AP-MW-27	11/6/2018 13:43	29.6	uS/cm	Conductivity
GC-AP-MW-27	11/6/2018 13:43	11.83	ft	Depth to Water Detail
GC-AP-MW-27	11/6/2018 13:43	5.29	mg/L	DO
GC-AP-MW-27	11/6/2018 13:43	126.5	mv	Oxidation Reduction Potention
GC-AP-MW-27	11/6/2018 13:43	4.9	pH	pH
GC-AP-MW-27	11/6/2018 13:43	20.44	C	Temperature
GC-AP-MW-27	11/6/2018 13:43	0.62	NTU	Turbidity
GC-AP-MW-27	11/6/2018 13:48	29.2	uS/cm	Conductivity
GC-AP-MW-27	11/6/2018 13:48	11.83	ft	Depth to Water Detail
GC-AP-MW-27	11/6/2018 13:48	5.28	mg/L	DO
GC-AP-MW-27	11/6/2018 13:48	125.8	mv	Oxidation Reduction Potention
GC-AP-MW-27	11/6/2018 13:48	4.9	pH	pH
GC-AP-MW-27	11/6/2018 13:48	20.43	C	Temperature
GC-AP-MW-27	11/6/2018 13:48	0.82	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-28	11/6/2018 12:49	52.8	uS/cm	Conductivity
GC-AP-MW-28	11/6/2018 12:49	11.23	ft	Depth to Water Detail
GC-AP-MW-28	11/6/2018 12:49	8.23	mg/L	DO
GC-AP-MW-28	11/6/2018 12:49	153.4	mv	Oxidation Reduction Potention
GC-AP-MW-28	11/6/2018 12:49	4.64	pH	pH
GC-AP-MW-28	11/6/2018 12:49	19.91	C	Temperature
GC-AP-MW-28	11/6/2018 12:49	0.65	NTU	Turbidity
GC-AP-MW-28	11/6/2018 12:54	53	uS/cm	Conductivity
GC-AP-MW-28	11/6/2018 12:54	11.23	ft	Depth to Water Detail
GC-AP-MW-28	11/6/2018 12:54	8.14	mg/L	DO
GC-AP-MW-28	11/6/2018 12:54	148.3	mv	Oxidation Reduction Potention
GC-AP-MW-28	11/6/2018 12:54	4.65	pH	pH
GC-AP-MW-28	11/6/2018 12:54	19.83	C	Temperature
GC-AP-MW-28	11/6/2018 12:54	0.56	NTU	Turbidity
GC-AP-MW-28	11/6/2018 12:59	52.6	uS/cm	Conductivity
GC-AP-MW-28	11/6/2018 12:59	11.23	ft	Depth to Water Detail
GC-AP-MW-28	11/6/2018 12:59	7.97	mg/L	DO
GC-AP-MW-28	11/6/2018 12:59	146.4	mv	Oxidation Reduction Potention
GC-AP-MW-28	11/6/2018 12:59	4.65	pH	pH
GC-AP-MW-28	11/6/2018 12:59	19.88	C	Temperature
GC-AP-MW-28	11/6/2018 12:59	0.64	NTU	Turbidity
GC-AP-MW-28	11/6/2018 13:04	51.8	uS/cm	Conductivity
GC-AP-MW-28	11/6/2018 13:04	11.23	ft	Depth to Water Detail
GC-AP-MW-28	11/6/2018 13:04	7.83	mg/L	DO
GC-AP-MW-28	11/6/2018 13:04	144.7	mv	Oxidation Reduction Potention
GC-AP-MW-28	11/6/2018 13:04	4.67	pH	pH
GC-AP-MW-28	11/6/2018 13:04	19.86	C	Temperature
GC-AP-MW-28	11/6/2018 13:04	0.53	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-29	11/6/2018 11:59	19.2	uS/cm	Conductivity
GC-AP-MW-29	11/6/2018 11:59	10.33	ft	Depth to Water Detail
GC-AP-MW-29	11/6/2018 11:59	8.22	mg/L	DO
GC-AP-MW-29	11/6/2018 11:59	137.9	mv	Oxidation Reduction Potention
GC-AP-MW-29	11/6/2018 11:59	4.86	pH	pH
GC-AP-MW-29	11/6/2018 11:59	19.59	C	Temperature
GC-AP-MW-29	11/6/2018 11:59	0.81	NTU	Turbidity
GC-AP-MW-29	11/6/2018 12:04	18.7	uS/cm	Conductivity
GC-AP-MW-29	11/6/2018 12:04	10.33	ft	Depth to Water Detail
GC-AP-MW-29	11/6/2018 12:04	8.17	mg/L	DO
GC-AP-MW-29	11/6/2018 12:04	134.9	mv	Oxidation Reduction Potention
GC-AP-MW-29	11/6/2018 12:04	4.86	pH	pH
GC-AP-MW-29	11/6/2018 12:04	19.59	C	Temperature
GC-AP-MW-29	11/6/2018 12:04	0.84	NTU	Turbidity
GC-AP-MW-29	11/6/2018 12:09	18.5	uS/cm	Conductivity
GC-AP-MW-29	11/6/2018 12:09	10.33	ft	Depth to Water Detail
GC-AP-MW-29	11/6/2018 12:09	8.09	mg/L	DO
GC-AP-MW-29	11/6/2018 12:09	133.5	mv	Oxidation Reduction Potention
GC-AP-MW-29	11/6/2018 12:09	4.86	pH	pH
GC-AP-MW-29	11/6/2018 12:09	19.62	C	Temperature
GC-AP-MW-29	11/6/2018 12:09	1.12	NTU	Turbidity
GC-AP-MW-29	11/6/2018 12:14	18.2	uS/cm	Conductivity
GC-AP-MW-29	11/6/2018 12:14	10.33	ft	Depth to Water Detail
GC-AP-MW-29	11/6/2018 12:14	7.98	mg/L	DO
GC-AP-MW-29	11/6/2018 12:14	132.5	mv	Oxidation Reduction Potention
GC-AP-MW-29	11/6/2018 12:14	4.86	pH	pH
GC-AP-MW-29	11/6/2018 12:14	19.68	C	Temperature
GC-AP-MW-29	11/6/2018 12:14	0.85	NTU	Turbidity

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Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-30	11/6/2018 10:56	31.2	uS/cm	Conductivity
GC-AP-MW-30	11/6/2018 10:56	11.51	ft	Depth to Water Detail
GC-AP-MW-30	11/6/2018 10:56	8.49	mg/L	DO
GC-AP-MW-30	11/6/2018 10:56	131.6	mv	Oxidation Reduction Potention
GC-AP-MW-30	11/6/2018 10:56	5.14	pH	pH
GC-AP-MW-30	11/6/2018 10:56	19.41	C	Temperature
GC-AP-MW-30	11/6/2018 10:56	0.67	NTU	Turbidity
GC-AP-MW-30	11/6/2018 11:01	29.3	uS/cm	Conductivity
GC-AP-MW-30	11/6/2018 11:01	11.51	ft	Depth to Water Detail
GC-AP-MW-30	11/6/2018 11:01	8.46	mg/L	DO
GC-AP-MW-30	11/6/2018 11:01	127.6	mv	Oxidation Reduction Potention
GC-AP-MW-30	11/6/2018 11:01	5.12	pH	pH
GC-AP-MW-30	11/6/2018 11:01	19.43	C	Temperature
GC-AP-MW-30	11/6/2018 11:01	0.95	NTU	Turbidity
GC-AP-MW-30	11/6/2018 11:06	28.5	uS/cm	Conductivity
GC-AP-MW-30	11/6/2018 11:06	11.51	ft	Depth to Water Detail
GC-AP-MW-30	11/6/2018 11:06	8.45	mg/L	DO
GC-AP-MW-30	11/6/2018 11:06	125.4	mv	Oxidation Reduction Potention
GC-AP-MW-30	11/6/2018 11:06	5.12	pH	pH
GC-AP-MW-30	11/6/2018 11:06	19.41	C	Temperature
GC-AP-MW-30	11/6/2018 11:06	0.76	NTU	Turbidity
GC-AP-MW-30	11/6/2018 11:11	27.9	uS/cm	Conductivity
GC-AP-MW-30	11/6/2018 11:11	11.51	ft	Depth to Water Detail
GC-AP-MW-30	11/6/2018 11:11	8.42	mg/L	DO
GC-AP-MW-30	11/6/2018 11:11	124	mv	Oxidation Reduction Potention
GC-AP-MW-30	11/6/2018 11:11	5.12	pH	pH
GC-AP-MW-30	11/6/2018 11:11	19.37	C	Temperature
GC-AP-MW-30	11/6/2018 11:11	0.88	NTU	Turbidity
GC-AP-MW-30	11/6/2018 11:16	27.4	uS/cm	Conductivity
GC-AP-MW-30	11/6/2018 11:16	11.51	ft	Depth to Water Detail
GC-AP-MW-30	11/6/2018 11:16	8.4	mg/L	DO
GC-AP-MW-30	11/6/2018 11:16	123.1	mv	Oxidation Reduction Potention
GC-AP-MW-30	11/6/2018 11:16	5.12	pH	pH
GC-AP-MW-30	11/6/2018 11:16	19.39	C	Temperature
GC-AP-MW-30	11/6/2018 11:16	0.89	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-31	11/6/2018 8:22	71.8	uS/cm	Conductivity
GC-AP-MW-31	11/6/2018 8:22	11.23	ft	Depth to Water Detail
GC-AP-MW-31	11/6/2018 8:22	1.24	mg/L	DO
GC-AP-MW-31	11/6/2018 8:22	55.6	mv	Oxidation Reduction Potention
GC-AP-MW-31	11/6/2018 8:22	6.12	pH	pH
GC-AP-MW-31	11/6/2018 8:22	18.95	C	Temperature
GC-AP-MW-31	11/6/2018 8:22	2.4	NTU	Turbidity
GC-AP-MW-31	11/6/2018 8:27	74.3	uS/cm	Conductivity
GC-AP-MW-31	11/6/2018 8:27	11.23	ft	Depth to Water Detail
GC-AP-MW-31	11/6/2018 8:27	1.16	mg/L	DO
GC-AP-MW-31	11/6/2018 8:27	58.4	mv	Oxidation Reduction Potention
GC-AP-MW-31	11/6/2018 8:27	5.94	pH	pH
GC-AP-MW-31	11/6/2018 8:27	18.99	C	Temperature
GC-AP-MW-31	11/6/2018 8:27	1.61	NTU	Turbidity
GC-AP-MW-31	11/6/2018 8:32	78.2	uS/cm	Conductivity
GC-AP-MW-31	11/6/2018 8:32	11.23	ft	Depth to Water Detail
GC-AP-MW-31	11/6/2018 8:32	1.08	mg/L	DO
GC-AP-MW-31	11/6/2018 8:32	58.8	mv	Oxidation Reduction Potention
GC-AP-MW-31	11/6/2018 8:32	5.89	pH	pH
GC-AP-MW-31	11/6/2018 8:32	18.97	C	Temperature
GC-AP-MW-31	11/6/2018 8:32	1.13	NTU	Turbidity
GC-AP-MW-31	11/6/2018 8:37	74.9	uS/cm	Conductivity
GC-AP-MW-31	11/6/2018 8:37	11.23	ft	Depth to Water Detail
GC-AP-MW-31	11/6/2018 8:37	1.1	mg/L	DO
GC-AP-MW-31	11/6/2018 8:37	58.5	mv	Oxidation Reduction Potention
GC-AP-MW-31	11/6/2018 8:37	5.89	pH	pH
GC-AP-MW-31	11/6/2018 8:37	18.96	C	Temperature
GC-AP-MW-31	11/6/2018 8:37	1	NTU	Turbidity
GC-AP-MW-31	11/6/2018 8:43	76.5	uS/cm	Conductivity
GC-AP-MW-31	11/6/2018 8:43	11.23	ft	Depth to Water Detail
GC-AP-MW-31	11/6/2018 8:43	1.11	mg/L	DO
GC-AP-MW-31	11/6/2018 8:43	57.5	mv	Oxidation Reduction Potention
GC-AP-MW-31	11/6/2018 8:43	5.89	pH	pH
GC-AP-MW-31	11/6/2018 8:43	18.96	C	Temperature
GC-AP-MW-31	11/6/2018 8:43	0.88	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-32	11/5/2018 15:38	74.2	uS/cm	Conductivity
GC-AP-MW-32	11/5/2018 15:38	18.65	ft	Depth to Water Detail
GC-AP-MW-32	11/5/2018 15:38	5.21	mg/L	DO
GC-AP-MW-32	11/5/2018 15:38	101.4	mv	Oxidation Reduction Potention
GC-AP-MW-32	11/5/2018 15:38	6.15	pH	pH
GC-AP-MW-32	11/5/2018 15:38	19.63	C	Temperature
GC-AP-MW-32	11/5/2018 15:38	5.78	NTU	Turbidity
GC-AP-MW-32	11/5/2018 15:43	74.9	uS/cm	Conductivity
GC-AP-MW-32	11/5/2018 15:43	18.65	ft	Depth to Water Detail
GC-AP-MW-32	11/5/2018 15:43	5.09	mg/L	DO
GC-AP-MW-32	11/5/2018 15:43	100.2	mv	Oxidation Reduction Potention
GC-AP-MW-32	11/5/2018 15:43	6.09	pH	pH
GC-AP-MW-32	11/5/2018 15:43	19.59	C	Temperature
GC-AP-MW-32	11/5/2018 15:43	5.45	NTU	Turbidity
GC-AP-MW-32	11/5/2018 15:48	75.8	uS/cm	Conductivity
GC-AP-MW-32	11/5/2018 15:48	18.65	ft	Depth to Water Detail
GC-AP-MW-32	11/5/2018 15:48	5.12	mg/L	DO
GC-AP-MW-32	11/5/2018 15:48	100.9	mv	Oxidation Reduction Potention
GC-AP-MW-32	11/5/2018 15:48	6.02	pH	pH
GC-AP-MW-32	11/5/2018 15:48	19.55	C	Temperature
GC-AP-MW-32	11/5/2018 15:48	1.05	NTU	Turbidity
GC-AP-MW-32	11/5/2018 15:53	76.1	uS/cm	Conductivity
GC-AP-MW-32	11/5/2018 15:53	18.65	ft	Depth to Water Detail
GC-AP-MW-32	11/5/2018 15:53	5.06	mg/L	DO
GC-AP-MW-32	11/5/2018 15:53	100.7	mv	Oxidation Reduction Potention
GC-AP-MW-32	11/5/2018 15:53	6.01	pH	pH
GC-AP-MW-32	11/5/2018 15:53	19.54	C	Temperature
GC-AP-MW-32	11/5/2018 15:53	0.91	NTU	Turbidity

**Alabama Power Company
Plant Greene County Ash Pond**

Well ID	Reading Time	Value	Unit	Description
GC-AP-MW-33	11/6/2018 9:20	101.1	uS/cm	Conductivity
GC-AP-MW-33	11/6/2018 9:20	22.1	ft	Depth to Water Detail
GC-AP-MW-33	11/6/2018 9:20	5.39	mg/L	DO
GC-AP-MW-33	11/6/2018 9:20	181	mv	Oxidation Reduction Potention
GC-AP-MW-33	11/6/2018 9:20	4.67	pH	pH
GC-AP-MW-33	11/6/2018 9:20	19.16	C	Temperature
GC-AP-MW-33	11/6/2018 9:20	0.65	NTU	Turbidity
GC-AP-MW-33	11/6/2018 9:25	98.7	uS/cm	Conductivity
GC-AP-MW-33	11/6/2018 9:25	22.1	ft	Depth to Water Detail
GC-AP-MW-33	11/6/2018 9:25	5.37	mg/L	DO
GC-AP-MW-33	11/6/2018 9:25	168.5	mv	Oxidation Reduction Potention
GC-AP-MW-33	11/6/2018 9:25	4.63	pH	pH
GC-AP-MW-33	11/6/2018 9:25	19.17	C	Temperature
GC-AP-MW-33	11/6/2018 9:25	0.72	NTU	Turbidity
GC-AP-MW-33	11/6/2018 9:30	99.1	uS/cm	Conductivity
GC-AP-MW-33	11/6/2018 9:30	22.1	ft	Depth to Water Detail
GC-AP-MW-33	11/6/2018 9:30	5.27	mg/L	DO
GC-AP-MW-33	11/6/2018 9:30	160.6	mv	Oxidation Reduction Potention
GC-AP-MW-33	11/6/2018 9:30	4.62	pH	pH
GC-AP-MW-33	11/6/2018 9:30	19.18	C	Temperature
GC-AP-MW-33	11/6/2018 9:30	0.6	NTU	Turbidity
GC-AP-MW-33	11/6/2018 9:35	98.3	uS/cm	Conductivity
GC-AP-MW-33	11/6/2018 9:35	22.1	ft	Depth to Water Detail
GC-AP-MW-33	11/6/2018 9:35	5.22	mg/L	DO
GC-AP-MW-33	11/6/2018 9:35	156.5	mv	Oxidation Reduction Potention
GC-AP-MW-33	11/6/2018 9:35	4.62	pH	pH
GC-AP-MW-33	11/6/2018 9:35	19.18	C	Temperature
GC-AP-MW-33	11/6/2018 9:35	0.75	NTU	Turbidity



Greene County Ash Pond

General Chemistry Event

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

Suspected iron bacteria present in MW-14. Turbidity levels reached the acceptable range after further pumping.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
 - Field Blank 1 and Field Blank 2 (FB-1 and FB-2) had results greater than the reporting limit (RL) for Bicarbonate Alkalinity.
- 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) 664-6032 or 6171
FAX (205) 257-1654

Analytical Report



Sample Group : WMWGREAP_1163
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

The following data has been reviewed and approved by:

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: 2018.10.30 15:11:28 -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: 2018.10.30 16:49:00 -05'00'



Alkalinity

Green County Ash Pond

WMWGREAP_1163

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY21778	628559 & 628560	WMWGREAP_1163
AY21779	628559 & 628560	WMWGREAP_1163
AY21780	628559 & 628560	WMWGREAP_1163
AY21781	628559 & 628560	WMWGREAP_1163
AY21782	628559 & 628560	WMWGREAP_1163
AY21783	628559 & 628560	WMWGREAP_1163
AY21784	628559 & 628560	WMWGREAP_1163
AY21785	628559 & 628560	WMWGREAP_1163
AY21786	628559 & 628560	WMWGREAP_1163
AY21787	628559 & 628560	WMWGREAP_1163
AY21788	628561 & 628562	WMWGREAP_1163
AY21789	628561 & 628562	WMWGREAP_1163
AY21790	628561 & 628562	WMWGREAP_1163
AY21791	628561 & 628562	WMWGREAP_1163
AY21792	628561 & 628562	WMWGREAP_1163
AY21793	628561 & 628562	WMWGREAP_1163
AY21794	628561 & 628562	WMWGREAP_1163
AY21795	628561 & 628562	WMWGREAP_1163
AY21796	628561 & 628562	WMWGREAP_1163
AY21797	628561 & 628562	WMWGREAP_1163
AY21798	628856 & 629311	WMWGREAP_1163
AY21799	628856 & 629311	WMWGREAP_1163
AY21800	628856 & 629311	WMWGREAP_1163
AY21801	628856 & 629311	WMWGREAP_1163
AY21802	628856 & 629311	WMWGREAP_1163
AY21803	628856 & 629311	WMWGREAP_1163
AY21804	628856 & 629311	WMWGREAP_1163
AY21805	628856 & 629311	WMWGREAP_1163
AY21806	628856 & 629311	WMWGREAP_1163
AY21807	628856 & 629311	WMWGREAP_1163



AY21808	628856 & 629311	WMWGREAP_1163
AY21809	628856 & 629311	WMWGREAP_1163
AY21810	628856 & 629311	WMWGREAP_1163
AY21811	628856 & 629311	WMWGREAP_1163
AY21812	628856 & 629311	WMWGREAP_1163
AY21813	628856 & 629311	WMWGREAP_1163
AY21814	628856 & 629311	WMWGREAP_1163
AY21815	628856 & 629311	WMWGREAP_1163
AY21816	628856 & 629311	WMWGREAP_1163
AY21817	628856 & 629311	WMWGREAP_1163
AY21818	628857 & 629312	WMWGREAP_1163
AY21819	628857 & 629312	WMWGREAP_1163

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.



Dissolved Metals ICP

Green County Ash Pond

WMWGREAP_1163

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY21778	628344	WMWGREAP_1163
AY21779	628344	WMWGREAP_1163
AY21780	628344	WMWGREAP_1163
AY21781	628344	WMWGREAP_1163
AY21782	628344	WMWGREAP_1163
AY21783	628344	WMWGREAP_1163
AY21784	628344	WMWGREAP_1163
AY21785	628344	WMWGREAP_1163
AY21786	628344	WMWGREAP_1163
AY21787	628344	WMWGREAP_1163
AY21788	628345	WMWGREAP_1163
AY21789	628345	WMWGREAP_1163
AY21790	628345	WMWGREAP_1163
AY21791	628345	WMWGREAP_1163
AY21792	628345	WMWGREAP_1163
AY21793	628345	WMWGREAP_1163
AY21794	628345	WMWGREAP_1163
AY21795	628345	WMWGREAP_1163
AY21796	628345	WMWGREAP_1163
AY21797	628345	WMWGREAP_1163
AY21798	628346	WMWGREAP_1163
AY21799	628346	WMWGREAP_1163
AY21800	628346	WMWGREAP_1163
AY21801	628346	WMWGREAP_1163
AY21802	628346	WMWGREAP_1163
AY21803	628346	WMWGREAP_1163
AY21804	628346	WMWGREAP_1163
AY21805	628346	WMWGREAP_1163
AY21806	628346	WMWGREAP_1163
AY21807	628346	WMWGREAP_1163



AY21808	628347	WMWGREAP_1163
AY21809	628347	WMWGREAP_1163
AY21810	628347	WMWGREAP_1163
AY21811	628347	WMWGREAP_1163
AY21812	628347	WMWGREAP_1163
AY21813	628347	WMWGREAP_1163
AY21814	628347	WMWGREAP_1163
AY21815	628347	WMWGREAP_1163
AY21816	628347	WMWGREAP_1163
AY21817	628347	WMWGREAP_1163
AY21818	628348	WMWGREAP_1163
AY21819	628348	WMWGREAP_1163

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638 for Dissolved analysis.
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:

- 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 MB or LCS submitted with sample set, an unfiltered method blank and laboratory control sample 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.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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 except for AY21807, AY21817, and AY21819. The MS/MSD spike level of Iron is less than 30% of the samples nominal concentration of Iron.
 - 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 at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AY21778	Fe	x101.5
AY21779	Fe	x101.5
AY21793	Fe	x101.5
AY21794	Fe	x101.5
AY21803	Fe	x101.5
AY21807	Fe	x101.5
AY21808	Fe	x101.5
AY21814	Fe	x101.5
AY21816	Fe	x101.5
AY21817	Fe	x101.5
AY21818	Fe	x101.5
AY21819	Fe	x101.5

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



Dissolved Metals ICPMS

Green County Ash Pond

WMWGREAP_1163

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY21778	628390	WMWGREAP_1163
AY21779	628390	WMWGREAP_1163
AY21780	628390	WMWGREAP_1163
AY21781	628390	WMWGREAP_1163
AY21782	628390	WMWGREAP_1163
AY21783	628390	WMWGREAP_1163
AY21784	628390	WMWGREAP_1163
AY21785	628390	WMWGREAP_1163
AY21786	628390	WMWGREAP_1163
AY21787	628390	WMWGREAP_1163
AY21788	628391	WMWGREAP_1163
AY21789	628391	WMWGREAP_1163
AY21790	628391	WMWGREAP_1163
AY21791	628391	WMWGREAP_1163
AY21792	628391	WMWGREAP_1163
AY21793	628391	WMWGREAP_1163
AY21794	628391	WMWGREAP_1163
AY21795	628391	WMWGREAP_1163
AY21796	628391	WMWGREAP_1163
AY21797	628391	WMWGREAP_1163
AY21798	628392	WMWGREAP_1163
AY21799	628392	WMWGREAP_1163
AY21800	628392	WMWGREAP_1163
AY21801	628392	WMWGREAP_1163
AY21802	628392	WMWGREAP_1163
AY21803	628392	WMWGREAP_1163
AY21804	628392	WMWGREAP_1163
AY21805	628392	WMWGREAP_1163
AY21806	628392	WMWGREAP_1163
AY21807	628392	WMWGREAP_1163



AY21808	628393	WMWGREAP_1163
AY21809	628393	WMWGREAP_1163
AY21810	628393	WMWGREAP_1163
AY21811	628393	WMWGREAP_1163
AY21812	628393	WMWGREAP_1163
AY21813	628393	WMWGREAP_1163
AY21814	628393	WMWGREAP_1163
AY21815	628393	WMWGREAP_1163
AY21816	628393	WMWGREAP_1163
AY21817	628393	WMWGREAP_1163
AY21818	628394	WMWGREAP_1163
AY21819	628394	WMWGREAP_1163

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
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:

- 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.
- 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 AY21807, AY21817, and AY21819 Mn results. Mn spike amounts were <30% Mn sample results. Therefore, the spike is invalid.
 - 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 at a x5.075 dilution to compensate for potential matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AY21778	Manganese	X92.365
AY21793	Manganese	X10.15
AY21807	Manganese	X10.15

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



Metals ICP

Green County Ash Pond

WMWGREAP_1163

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY21778	628359	WMWGREAP_1163
AY21779	628359	WMWGREAP_1163
AY21780	628359	WMWGREAP_1163
AY21781	628359	WMWGREAP_1163
AY21782	628359	WMWGREAP_1163
AY21783	628359	WMWGREAP_1163
AY21784	628359	WMWGREAP_1163
AY21785	628359	WMWGREAP_1163
AY21786	628359	WMWGREAP_1163
AY21787	628359	WMWGREAP_1163
AY21788	628360	WMWGREAP_1163
AY21789	628360	WMWGREAP_1163
AY21790	628360	WMWGREAP_1163
AY21791	628360	WMWGREAP_1163
AY21792	628360	WMWGREAP_1163
AY21793	628360	WMWGREAP_1163
AY21794	628360	WMWGREAP_1163
AY21795	628360	WMWGREAP_1163
AY21796	628360	WMWGREAP_1163
AY21797	628360	WMWGREAP_1163
AY21798	628361	WMWGREAP_1163
AY21799	628361	WMWGREAP_1163
AY21800	628361	WMWGREAP_1163
AY21801	628361	WMWGREAP_1163
AY21802	628361	WMWGREAP_1163
AY21803	628361	WMWGREAP_1163
AY21804	628361	WMWGREAP_1163
AY21805	628361	WMWGREAP_1163
AY21806	628361	WMWGREAP_1163
AY21807	628361	WMWGREAP_1163



AY21808	628362	WMWGREAP_1163
AY21809	628362	WMWGREAP_1163
AY21810	628362	WMWGREAP_1163
AY21811	628362	WMWGREAP_1163
AY21812	628362	WMWGREAP_1163
AY21813	628362	WMWGREAP_1163
AY21814	628362	WMWGREAP_1163
AY21815	628362	WMWGREAP_1163
AY21816	628362	WMWGREAP_1163
AY21817	628362	WMWGREAP_1163
AY21818	628363	WMWGREAP_1163
AY21819	628363	WMWGREAP_1163

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
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:

- 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 spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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 ICP batch. All acceptance criteria for accuracy were met except for the following:
 - AY21807 for Ca, Na, and Fe, the MS/MSD spike level is less than 30% of the samples nominal concentration.
 - AY21817 for Na and Fe, the MS/MSD spike level is less than 30% of the samples nominal concentration.
 - AY21819 for Ca, Na, and Fe, the MS/MSD spike level is less than 30% of the samples nominal concentration.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AY21778	Ca, Fe, Na	50.75X
AY21779	Fe	50.75X
AY21792	Ca	50.75X
AY21793	Ca, Fe	50.75X
AY21794	Ca, Fe	50.75X
AY21803	Fe	50.75X
AY21804	Ca, Na	50.75X
AY21805	Ca, Na	50.75X
AY21806	Na	50.75X
AY21807	Ca, Fe, Na	50.75X
AY21808	Fe	50.75X
AY21814	Ca, Fe	50.75X
AY21816	Fe	50.75X
AY21817	Fe, Na	50.75X
AY21818	Fe, Na	50.75X
AY21819	Fe, Na	50.75X

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



Metals ICPMS

Green County Ash Pond

WMWGREAP_1163

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY21778	628761	WMWGREAP_1163
AY21779	628761	WMWGREAP_1163
AY21780	628761	WMWGREAP_1163
AY21781	628761	WMWGREAP_1163
AY21782	628761	WMWGREAP_1163
AY21783	628761	WMWGREAP_1163
AY21784	628761	WMWGREAP_1163
AY21785	628761	WMWGREAP_1163
AY21786	628761	WMWGREAP_1163
AY21787	628761	WMWGREAP_1163
AY21788	628762	WMWGREAP_1163
AY21789	628762	WMWGREAP_1163
AY21790	628762	WMWGREAP_1163
AY21791	628762	WMWGREAP_1163
AY21792	628762	WMWGREAP_1163
AY21793	628762	WMWGREAP_1163
AY21794	628762	WMWGREAP_1163
AY21795	628762	WMWGREAP_1163
AY21796	628762	WMWGREAP_1163
AY21797	628762	WMWGREAP_1163
AY21798	628763	WMWGREAP_1163
AY21799	628763	WMWGREAP_1163
AY21800	628763	WMWGREAP_1163
AY21801	628763	WMWGREAP_1163
AY21802	628763	WMWGREAP_1163
AY21803	628763	WMWGREAP_1163
AY21804	628763	WMWGREAP_1163
AY21805	628763	WMWGREAP_1163
AY21806	628763	WMWGREAP_1163
AY21807	628763	WMWGREAP_1163



AY21808	628764	WMWGREAP_1163
AY21809	628764	WMWGREAP_1163
AY21810	628764	WMWGREAP_1163
AY21811	628764	WMWGREAP_1163
AY21812	628764	WMWGREAP_1163
AY21813	628764	WMWGREAP_1163
AY21814	628764	WMWGREAP_1163
AY21815	628764	WMWGREAP_1163
AY21816	628764	WMWGREAP_1163
AY21817	628764	WMWGREAP_1163
AY21818	628765	WMWGREAP_1163
AY21819	628765	WMWGREAP_1163

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
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:

- 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 AY21807 and AY21819 Mn results. Mn spike amounts were <30% Mn sample results, so the spike is invalid.
 - 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 at a x5.075 dilution to compensate for potential matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AY21778	Manganese	X92.365
AY21807	Manganese	X10.15

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



TDS

Green County Ash Pond

WMWGREAP_1163

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
AY21778	628254	WMWGREAP_1163
AY21779	628254	WMWGREAP_1163
AY21780	628254	WMWGREAP_1163
AY21781	628254	WMWGREAP_1163
AY21782	628254	WMWGREAP_1163
AY21783	628254	WMWGREAP_1163
AY21784	628254	WMWGREAP_1163
AY21785	628254	WMWGREAP_1163
AY21786	628254	WMWGREAP_1163
AY21787	628254	WMWGREAP_1163
AY21788	628255	WMWGREAP_1163
AY21789	628255	WMWGREAP_1163
AY21790	628255	WMWGREAP_1163
AY21791	628404	WMWGREAP_1163
AY21792	628404	WMWGREAP_1163
AY21793	628404	WMWGREAP_1163
AY21794	628404	WMWGREAP_1163
AY21795	628255	WMWGREAP_1163
AY21796	628404	WMWGREAP_1163
AY21797	628404	WMWGREAP_1163
AY21798	628404	WMWGREAP_1163
AY21799	628255	WMWGREAP_1163
AY21800	628255	WMWGREAP_1163
AY21801	628255	WMWGREAP_1163
AY21802	628255	WMWGREAP_1163
AY21803	628255	WMWGREAP_1163
AY21804	628255	WMWGREAP_1163
AY21805	628404	WMWGREAP_1163
AY21806	628404	WMWGREAP_1163
AY21807	628404	WMWGREAP_1163



AY21808	628405	WMWGREAP_1163
AY21809	628405	WMWGREAP_1163
AY21810	628405	WMWGREAP_1163
AY21811	628405	WMWGREAP_1163
AY21812	628405	WMWGREAP_1163
AY21813	628405	WMWGREAP_1163
AY21814	628405	WMWGREAP_1163
AY21815	628405	WMWGREAP_1163
AY21816	628405	WMWGREAP_1163
AY21817	628405	WMWGREAP_1163
AY21818	628498	WMWGREAP_1163
AY21819	628498	WMWGREAP_1163

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 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.
- All samples were between 2.5mg and 200mg residue, except for AY21795, AY21796, AY21797, AY21802, and AY21813. Max volume of 150mL of sample was filtered in these cases.

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY21778

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	219	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	122	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	144	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	42.4	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		92.365	0.0924	0.462	14.0	mg/L
* Manganese, Total	ABB	9/27/2018	EPA 200.8		92.365	0.0924	0.462	13.9	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	65.2	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	7.18	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.04	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	107	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			107	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		100	1380	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY21778

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY21778

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60	1.89	5

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY21779

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	73.9	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	33.6	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	44.6	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	11.0	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	2.84	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	2.53	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	25.2	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	4.81	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.16	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	52.3	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			52.3	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	472	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY21779

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY21779

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY21780

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	1.50	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	J 0.418	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0105	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.00980	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.45	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.977	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.33	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	2.08	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			2.08	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	29.3	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY21780

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike	MS				Limit	Rec	Limit	Prec	
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20	
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20	
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20	
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10	
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20	
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20	
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20	
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05					
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20	
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20	

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Laboratory certification ID: E571114

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY21780

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60	1.89	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY21781

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	1.50	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	J 0.424	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.00985	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.00960	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.44	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.980	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.30	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	1.94	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			1.94	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	30.7	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY21781

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY21781

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY21782

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	J	0.171	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	J	0.0327	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	J	0.282	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005		0.0334	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005		0.0299	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5		1.59	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J	0.750	mg/L
General Characteristics										
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00		4.96	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1		0.52	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1				0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1				0.52	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1				09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY21782

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike	MS				Limit	Rec	Limit	Prec	
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20	
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20	
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20	
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10	
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20	
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20	
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20	
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05					
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20	
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20	

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY21782

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY21783

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.04	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.29	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0896	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.0799	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	1.21	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 1.96	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	4.74	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	U Not Detected	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	34.7	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY21783

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY21783

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY21784

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	0.776	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	0.526	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0234	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.0208	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	3.19	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.762	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.07	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	1.72	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			1.72	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY21784

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY21784

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY21785

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	3.76	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	0.570	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.212	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.202	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	3.01	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.471	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.44	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	4.30	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			4.30	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	35.3	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY21785

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY21785

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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Expiration: June 30, 2019

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CC:

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY21786

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	28.7	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	9.21	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0270	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.0256	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	3.15	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 1.70	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.61	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	14.0	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			14.0	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	170	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 744 County Road 87, GSC#8
 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY21786

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				

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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY21786

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60	1.89	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY21787

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	32.0	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	J 0.0228	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.05	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.51	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.820	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.59	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	76.0	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.03	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			76.0	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	108	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY21787

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21787	Manganese, Dissolved	mg/L	0.0000120	0.005	0.10	0.102	0.0994		0.085 to 0.115	102	70 to 130	2.12	20
AY21787	Iron, Total	mg/L	0.0000802	0.022	0.2	0.224	0.224	0.210233	0.17 to 0.23	100	70 to 130	0.356	20
AY21787	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21787	Magnesium, Total	mg/L	0.000136	0.22	5.00	7.00	6.99	5.10	4.25 to 5.75	99.2	70 to 130	0.256	20
AY21787	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.7	10.7	10.2	8.5 to 11.5	99.0	70 to 130	0.337	20
AY21787	Alkalinity, Total as CaCO3	mg/L					76.2	49.9	45.0 to 55.0			0.263	10
AY21787	Calcium, Total	mg/L	0.00335	0.22	5.00	36.9	37.0	5.18	4.25 to 5.75	99.1	70 to 130	0.0923	20
AY21787	Sodium, Total	mg/L	0.00231	0.22	5.00	7.47	7.48	5.18	4.25 to 5.75	99.3	70 to 130	0.175	20
AY21787	Iron, Dissolved	mg/L	-0.00100	0.022	0.2	0.205	0.200	0.201	0.17 to 0.23	103	70 to 130	2.52	20
AY21787	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0910	0.0905	0.0928	0.085 to 0.115	91.0	70 to 130	0.493	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY21787

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21787	Solids, Dissolved	mg/L	-5.00	25			104	53.0	40 to 60		1.89	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY21788

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	10.5	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	0.730	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	3.94	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.693	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.16	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	28.2	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			28.2	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	60.0	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY21788

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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Expiration: June 30, 2019

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY21788

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit		
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60		0.324	5

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 Calera, AL 35040
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 FAX (205) 257-1654

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY21789

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	2.60	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	3.41	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0223	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.0196	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	7.31	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	4.33	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	4.84	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	0.22	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.22	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	66.7	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY21789

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
			MB	Limit						Rec	Limit		
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY21789

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60	0.324	5

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CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY21790

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	7.50	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	0.256	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.278	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	1.11	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0144	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.0128	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	5.73	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 1.11	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.05	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	25.1	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			25.1	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	53.3	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Expiration: June 30, 2019

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY21790

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
			MB	Limit						Rec	Limit		
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY21790

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60		0.324	5

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Expiration: June 30, 2019

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CC:

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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY21791

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	8.98	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	0.805	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.835	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	7.36	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.232	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.218	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	25.8	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.678	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.41	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	26.0	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			26.0	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	156	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			9/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY21791

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY21791

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00		25			448	54.0		40 to 60			1.54	5

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Expiration: June 30, 2019

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CC:

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - PZ-19

Laboratory ID Number: AY21792

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	155	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	2.11	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	3.40	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	12.2	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.981	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.912	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	38.8	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 1.46	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.84	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	239	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.16	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			239	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		50	538	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - PZ-19

Laboratory ID Number: AY21792

Sample	Analysis	Units	MB	MB			MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike	MS				Limit	Rec	Limit	Prec	
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20	
AY21797	Mangnese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20	
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05					
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20	
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20	
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20	
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10	
AY21797	Mangnese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20	
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20	
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - PZ-19

Laboratory ID Number: AY21792

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY21807	Solids, Dissolved	mg/L	1.00	25			448	54.0	40 to 60			1.54	5

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CC:

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AY21793

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	172	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	22.3	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	30.9	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	29.8	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		10.15	0.001015	0.05075	7.03	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	6.01	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	27.1	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	5.30	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.32	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	116	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			116	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		50	714	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AY21793

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AY21793

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00	25			448	54.0	40 to 60		1.54	5

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CC:

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 Calera, AL 35040
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY21794

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	109	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	19.5	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	26.0	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	5.18	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.818	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.744	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	23.4	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 1.58	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	6.50	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	310	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0.09	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			310	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	354	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Expiration: June 30, 2019

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 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY21794

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	
			Limit	MB					Limit	Rec	Limit	Prec		
AY21797	pH for Alkalinity	SU					6.99		6.95 to 7.05					
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75		100	70 to 130	1.16	20
AY21797	Mangnese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115		99.9	70 to 130	0.0669	20
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75		99.9	70 to 130	0.879	20
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0				0.00	10
AY21797	Mangnese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115		92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23		102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5		102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23		101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75		100	70 to 130	0.355	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY21794

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00		25			448	54.0		40 to 60			1.54	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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 Calera, AL 35040
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21795

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.49	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	U Not Detected	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21795

Sample	Analysis	Units	MB	MB			LCS			Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Mangnese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Mangnese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21795

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21804	Solids, Dissolved	mg/L	-5.00		25			620	53.0		40 to 60			0.324	5	

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21796

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.37	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	U Not Detected	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21796

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21797	pH for Alkalinity	SU					6.99	6.95 to 7.05					
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21796

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00		25			448	54.0		40 to 60			1.54	5

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CC:

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 744 County Road 87, GSC#8
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY21797

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	HRG	9/14/2018	SM 4500H+ B		1		4.00	5.15	SU
Alkalinity, Total as CaCO3	HRG	9/14/2018	SM 2320 B		1		0.1	U Not Detected	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	9/14/2018	SM 4500CO2 D		1			0	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPEB
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY21797

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY21797	Manganese, Dissolved	mg/L	0.00000584	0.005	0.10	0.0999	0.1000		0.085 to 0.115	99.9	70 to 130	0.0669	20
AY21797	Calcium, Total	mg/L	-0.000566	0.22	5.00	5.01	5.07	5.14	4.25 to 5.75	100	70 to 130	1.16	20
AY21797	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY21797	Magnesium, Total	mg/L	-0.00150	0.22	5.00	4.99	5.04	4.98	4.25 to 5.75	99.9	70 to 130	0.879	20
AY21797	Alkalinity, Total as CaCO3	mg/L					-0.080	49.9	45.0 to 55.0			0.00	10
AY21797	Manganese, Total	mg/L	0.00000603	0.0022	0.10	0.0927	0.0917	0.0928	0.085 to 0.115	92.7	70 to 130	1.08	20
AY21797	Iron, Dissolved	mg/L	-0.00102	0.022	0.2	0.202	0.201	0.200	0.17 to 0.23	101	70 to 130	0.517	20
AY21797	Sodium, Total	mg/L	-0.00432	0.22	5.00	5.00	5.02	5.03	4.25 to 5.75	100	70 to 130	0.355	20
AY21797	Iron, Total	mg/L	-0.0000630	0.022	0.2	0.204	0.207	0.208666	0.17 to 0.23	102	70 to 130	1.63	20
AY21797	Potassium, Total	mg/L	-0.000813	0.0946	10.0	10.2	9.97	10.2	8.5 to 11.5	102	70 to 130	2.22	20

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To: Dustin Brooks
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Customer Account: WMWGREAPEB
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY21797

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21807	Solids, Dissolved	mg/L	1.00		25			448	54.0		40 to 60			1.54		5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - RS-2

Laboratory ID Number: AY21798

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	22.1	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.236	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	10.4	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	J 0.00193	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.0771	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	21.6	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	2.57	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	7.98	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	63.3	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.56	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			62.7	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	181	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - RS-2

Laboratory ID Number: AY21798

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Manganese, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Manganese, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - RS-2

Laboratory ID Number: AY21798

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00	25			448	54.0	40 to 60		1.54	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY21799

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	27.2	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	1.88	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	1.89	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	7.01	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	4.81	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	4.30	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	22.7	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	4.98	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.61	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	57.7	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			57.7	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	183	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY21799

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Mangenes, Dissolved	mg/L	0.0000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Mangenes, Total	mg/L	0.0000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10

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Issued By: State of Florida, Department of Health

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY21799

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60		0.324	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY21800

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	28.8	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	0.0548	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.0592	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	10.3	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.589	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.508	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	19.1	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	5.11	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	7.02	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	73.9	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.07	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			73.8	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	197	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY21800

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Mangenes, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Mangenes, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY21800

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60	0.324	5

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Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-21 DUP

Laboratory ID Number: AY21801

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	28.5	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	J 0.0453	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.0573	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	10.1	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.475	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.490	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	18.8	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	5.01	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	7.03	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	74.8	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			74.7	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	194	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-21 DUP

Laboratory ID Number: AY21801

Sample	Analysis	Units	MB	MB			MS	MSD	LCS		Rec		Prec
				Limit	Spike	MS			Limit	Rec	Limit	Prec	
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Mangenes, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Mangenes, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-21 DUP

Laboratory ID Number: AY21801

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60		0.324 5

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Expiration: June 30, 2019

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21802

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	5.48	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	1.06	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			1.06	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21802

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Manganese, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Manganese, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 10-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21802

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21804	Solids, Dissolved	mg/L	-5.00		25			620	53.0		40 to 60			0.324		5

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CC:

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

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY21803

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	72.2	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	23.6	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	36.8	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	15.0	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.91	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	1.78	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	22.2	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	6.05	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.74	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	234	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.12	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			234	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		25	370	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY21803

Sample	Analysis	Units	MB	MB			MS	MSD	LCS		Rec		Prec	Limit
				Limit	Spike	MS			LCS	Limit	Rec	Limit		
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20	
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20	
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05					
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20	
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20	
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10	
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20	
AY21807	Manganese, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20	
AY21807	Manganese, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20	
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20	

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY21803

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21804	Solids, Dissolved	mg/L	-5.00	25			620	53.0	40 to 60		0.324	5

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Expiration: June 30, 2019

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY21804

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	119	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	0.134	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.116	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	20.3	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.834	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.813	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	104	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.903	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.70	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	417	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.20	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			417	mg/L
* Solids, Dissolved	CRB	9/18/2018	SM 2540C		1		50	616	mg/L
Filter Completion Date	CRB	9/14/2018	SM 2540C		1			09/14/2018	Date

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY21804

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Manganese, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Manganese, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY21804

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21804	Solids, Dissolved	mg/L	-5.00		25			620	53.0		40 to 60			0.324		5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY21805

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	209	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	0.196	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.194	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	18.6	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.05	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.988	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	229	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 0.898	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.61	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	403	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.15	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			403	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		50	1020	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Expiration: June 30, 2019

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY21805

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Mangenes, Dissolved	mg/L	0.0000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Mangenes, Total	mg/L	0.0000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY21805

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00		25			448	54.0		40 to 60			1.54	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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CC:

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY21806

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	64.9	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	J 0.0320	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	J 0.0341	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	16.9	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	2.48	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	2.50	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	126	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	J 1.03	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.58	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	403	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.14	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			403	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		50	496	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY21806

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Mangenes, Dissolved	mg/L	0.0000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Mangenes, Total	mg/L	0.0000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY21806

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21807	Solids, Dissolved	mg/L	1.00		25			448	54.0		40 to 60			1.54		5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY21807

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	122	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	7.44	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	14.0	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	24.3	mg/L
* Manganese, Dissolved	ABB	9/26/2018	EPA 200.8		10.15	0.01015	0.05075	6.90	mg/L
* Manganese, Total	ABB	9/27/2018	EPA 200.8		10.15	0.01015	0.05075	8.56	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	61.8	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	6.95	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.73	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	383	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.19	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			383	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		50	462	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total & Dissolved Iron, Total Sodium, Total & Dissolved Manganese, and Total Calcium are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY21807

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21807	Iron, Dissolved	mg/L	-0.000729	0.022	0.2	7.63	7.80	0.202	0.17 to 0.23	93.0	70 to 130	2.25	20
AY21807	Magnesium, Total	mg/L	-0.00116	0.22	5.00	29.2	29.3	5.02	4.25 to 5.75	99.0	70 to 130	0.362	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21807	Calcium, Total	mg/L	-0.00307	0.22	5.00	116	96.0	5.14	4.25 to 5.75	-111	70 to 130	19.1	20
AY21807	Mangnese, Dissolved	mg/L	0.00000927	0.005	0.10	6.97	7.33		0.085 to 0.115	72.0	70 to 130	5.03	20
AY21807	Mangnese, Total	mg/L	0.00000838	0.0022	0.10	8.54	8.73	0.0944	0.085 to 0.115	-19.6	70 to 130	2.21	20
AY21807	Potassium, Total	mg/L	0.000889	0.0946	10.0	16.7	17.1	10.4	8.5 to 11.5	97.7	70 to 130	2.24	20
AY21807	Iron, Total	mg/L	0.0000902	0.022	0.2	13.0	11.0	0.208197	0.17 to 0.23	-513	70 to 130	17.2	20
AY21807	Sodium, Total	mg/L	-0.00360	0.22	5.00	62.5	52.2	5.08	4.25 to 5.75	14.2	70 to 130	18.1	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total & Dissolved Iron, Total Sodium, Total & Dissolved Manganese, and Total Calcium are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY21807

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21807	Solids, Dissolved	mg/L	1.00	25			448	54.0	40 to 60		1.54	5

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Expiration: June 30, 2019

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CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY21808

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	66.1	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	16.6	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	27.6	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	11.8	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	3.65	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	3.25	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	31.3	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	3.88	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.60	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	252	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.09	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			252	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	335	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY21808

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Mangnese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Mangnese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY21808

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec		
			Limit	Limit			Duplicate	LCS	Limit	Limit	Prec	Limit
AY21817	Solids, Dissolved	mg/L	1.00	25			464	54.0	40 to 60		1.28	5

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY21809

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	27.4	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	9.28	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.03	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.986	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	19.1	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	4.71	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	7.03	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	66.6	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.07	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			66.5	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	184	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY21809

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21817	pH for Alkalinity	SU					6.97	6.95 to 7.05					
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Mangenes, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Mangenes, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY21809

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21817	Solids, Dissolved	mg/L	1.00		25			464	54.0		40 to 60			1.28		5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY21810

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	27.4	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	9.38	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.05	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.920	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	19.3	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	4.60	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	7.04	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	67.5	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.07	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			67.4	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	185	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY21810

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY21817	Manganese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Manganese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY21810

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY21817	Solids, Dissolved	mg/L	1.00	25			464	54.0	40 to 60			1.28	5

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CC:

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 FAX (205) 257-1654

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY21811

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	26.8	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	J 0.0494	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.0542	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	9.97	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.119	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.109	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	20.5	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	2.91	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.86	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	63.4	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.04	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			63.4	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	185	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY21811

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY21817	Manganese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Manganese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY21811

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21817	Solids, Dissolved	mg/L	1.00		25			464	54.0		40 to 60			1.28	5

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Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY21812

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	48.5	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	2.11	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	2.01	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	11.0	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	2.21	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	2.03	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	29.1	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	8.30	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.27	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	68.6	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			68.6	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	321	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY21812

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit
			MB	Limit						Rec	Limit		
AY21817	Manganese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Manganese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY21812

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Rec	Prec	Prec	Limit
								Duplicate	LCS			Limit	Limit			
AY21817	Solids, Dissolved	mg/L	1.00		25			464	54.0		40 to 60			1.28		5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21813

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	5.43	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	1.40	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			1.40	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Expiration: June 30, 2019

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21813

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Mangenes, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Mangenes, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAPFB
 Sample Date: 11-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY21813

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21817	Solids, Dissolved	mg/L	1.00		25			464	54.0		40 to 60			1.28	5

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY21814

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	109	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	18.5	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	25.8	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	22.6	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	2.70	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	2.65	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	31.7	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	11.6	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.54	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	207	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.07	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			207	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	180	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY21814

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY21817	Manganese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Manganese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY21814

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21817	Solids, Dissolved	mg/L	1.00		25			464	54.0		40 to 60			1.28	5

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - RS-1

Laboratory ID Number: AY21815

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	22.2	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		2.03	0.01	0.05	J 0.0148	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		2.03	0.01	0.05	0.675	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	10.6	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	0.0223	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	0.163	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	21.8	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	2.62	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	7.68	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	65.1	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.29	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			64.8	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	167	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - RS-1

Laboratory ID Number: AY21815

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Mangenes, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Mangenes, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - RS-1

Laboratory ID Number: AY21815

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21817	Solids, Dissolved	mg/L	1.00		25			464	54.0		40 to 60			1.28	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY21816

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	76.3	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	11.0	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	16.0	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	19.2	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.91	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	1.86	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	38.5	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	12.3	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.45	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	286	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			286	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		25	415	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY21816

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY21817	Manganese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Manganese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY21816

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AY21817	Solids, Dissolved	mg/L	1.00	25			464	54.0	40 to 60			1.28	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY21817

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	58.9	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	21.1	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	27.7	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	19.5	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.89	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	1.77	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	80.2	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	10.8	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/24/2018	SM 4500H+ B		1		4.00	6.50	SU
Alkalinity, Total as CaCO3	EMG	9/24/2018	SM 2320 B		1		0.1	358	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			0.11	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/24/2018	SM 4500CO2 D		1			358	mg/L
* Solids, Dissolved	CRB	9/19/2018	SM 2540C		1		50	476	mg/L
Filter Completion Date	CRB	9/17/2018	SM 2540C		1			09/17/2018	Date

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total and Dissolved Iron, Total Sodium, and Dissolved Manganese are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY21817

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY21817	Iron, Total	mg/L	0.0000336	0.022	0.2	31.1	28.8	0.207535	0.17 to 0.23	1700	70 to 130	7.42	20
AY21817	Calcium, Total	mg/L	0.000953	0.22	5.00	63.0	63.7	5.13	4.25 to 5.75	81.5	70 to 130	1.07	20
AY21817	pH for Alkalinity	SU						6.97	6.95 to 7.05				
AY21817	Manganese, Dissolved	mg/L	0.0000115	0.005	0.10	1.97	1.93		0.085 to 0.115	78.4	70 to 130	1.90	20
AY21817	Iron, Dissolved	mg/L	-0.00111	0.022	0.2	22.8	20.6	0.202	0.17 to 0.23	836	70 to 130	10.0	20
AY21817	Magnesium, Total	mg/L	0.000439	0.22	5.00	24.1	24.5	5.01	4.25 to 5.75	90.9	70 to 130	1.51	20
AY21817	Sodium, Total	mg/L	-0.00382	0.22	5.00	95.3	87.7	5.00	4.25 to 5.75	302	70 to 130	8.30	20
AY21817	Alkalinity, Total as CaCO3	mg/L					324	48.92	45.0 to 55.0			9.97	10
AY21817	Manganese, Total	mg/L	0.00000838	0.0022	0.10	1.89	1.89	0.0944	0.085 to 0.115	116	70 to 130	0.118	20
AY21817	Potassium, Total	mg/L	0.000889	0.0946	10.0	21.1	21.0	10.4	8.5 to 11.5	103	70 to 130	0.321	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total and Dissolved Iron, Total Sodium, and Dissolved Manganese are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY21817

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	Rec	Prec	
			Limit	Limit			Duplicate	LCS	Limit	Limit	
AY21817	Solids, Dissolved	mg/L	1.00	25			464	54.0	40 to 60	1.28	5

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Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total and Dissolved Iron, Total Sodium, and Dissolved Manganese are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-17 DUP

Laboratory ID Number: AY21818

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	58.4	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	20.6	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	24.2	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	19.4	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	1.88	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	1.80	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		50.75	5.075	25.375	71.2	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	11.0	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/25/2018	SM 4500H+ B		1		4.00	6.52	SU
Alkalinity, Total as CaCO3	EMG	9/25/2018	SM 2320 B		1		0.1	358	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/25/2018	SM 4500CO2 D		1			0.11	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/25/2018	SM 4500CO2 D		1			358	mg/L
* Solids, Dissolved	CRB	9/20/2018	SM 2540C		1		50	924	mg/L
Filter Completion Date	CRB	9/18/2018	SM 2540C		1			09/18/2018	Date

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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-17 DUP

Laboratory ID Number: AY21818

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AY21819	Alkalinity, Total as CaCO3	mg/L				285	49.9	45.0 to 55.0			6.78	10	
AY21819	Mangeneses, Dissolved	mg/L	0.0000232	0.005	0.10	3.39	3.46	0.085 to 0.115	60.9	70 to 130	2.12	20	
AY21819	Potassium, Total	mg/L	0.00159	0.0946	10.0	16.2	16.9	10.3	8.5 to 11.5	102	70 to 130	4.21	20
AY21819	Calcium, Total	mg/L	-0.00132	0.22	5.00	71.5	70.5	5.04	4.25 to 5.75	74.3	70 to 130	1.42	20
AY21819	Mangeneses, Total	mg/L	0.00000605	0.0022	0.10	3.05	3.17	0.0927	0.085 to 0.115	120	70 to 130	3.81	20
AY21819	pH for Alkalinity	SU					6.98	6.95 to 7.05					
AY21819	Iron, Dissolved	mg/L	-0.00125	0.022	0.2	9.08	8.88	0.201	0.17 to 0.23	532	70 to 130	2.22	20
AY21819	Iron, Total	mg/L	0.0000481	0.022	0.2	12.2	13.2	0.204734	0.17 to 0.23	-221	70 to 130	8.32	20
AY21819	Magnesium, Total	mg/L	-0.00101	0.22	5.00	18.4	18.3	4.93	4.25 to 5.75	91.6	70 to 130	0.839	20
AY21819	Sodium, Total	mg/L	-0.00470	0.22	5.00	48.7	52.8	4.97	4.25 to 5.75	205	70 to 130	8.09	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 LBM 10/22/18

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-17 DUP

Laboratory ID Number: AY21818

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AY21819	Solids, Dissolved	mg/L	-3.00		25			346	45.0		40 to 60			1.02	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 10/22/18

CC:

Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY21819

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Calcium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	67.8	mg/L
* Iron, Dissolved	RDA	9/21/2018	EPA 200.7		101.5	1.015	5.075	8.02	mg/L
* Iron, Total	RDA	9/24/2018	EPA 200.7		50.75	0.5075	2.5375	12.6	mg/L
* Magnesium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	13.8	mg/L
* Manganese, Dissolved	ABB	9/19/2018	EPA 200.8		5.075	0.001	0.005	3.33	mg/L
* Manganese, Total	ABB	9/25/2018	EPA 200.8		5.075	0.001	0.005	2.93	mg/L
* Sodium, Total	RDA	9/24/2018	EPA 200.7		2.03	0.1	0.5	38.4	mg/L
* Potassium, Total	ABB	9/25/2018	EPA 200.8		5.075	0.215	2.5	6.05	mg/L
General Characteristics									
pH for Alkalinity	EMG	9/25/2018	SM 4500H+ B		1		4.00	6.42	SU
Alkalinity, Total as CaCO3	EMG	9/25/2018	SM 2320 B		1		0.1	305	mg/L CaCO3
Carbonate Alkalinity, as CaCO3	EMG	9/25/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	9/25/2018	SM 4500CO2 D		1			305	mg/L
* Solids, Dissolved	CRB	9/20/2018	SM 2540C		1		25	339	mg/L
Filter Completion Date	CRB	9/18/2018	SM 2540C		1			09/18/2018	Date

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY21819

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY21819	Magnesium, Total	mg/L	-0.00101	0.22	5.00	18.4	18.3	4.93	4.25 to 5.75	91.6	70 to 130	0.839	20
AY21819	Sodium, Total	mg/L	-0.00470	0.22	5.00	48.7	52.8	4.97	4.25 to 5.75	205	70 to 130	8.09	20
AY21819	Iron, Dissolved	mg/L	-0.00125	0.022	0.2	9.08	8.88	0.201	0.17 to 0.23	532	70 to 130	2.22	20
AY21819	Iron, Total	mg/L	0.0000481	0.022	0.2	12.2	13.2	0.204734	0.17 to 0.23	-221	70 to 130	8.32	20
AY21819	Alkalinity, Total as CaCO3	mg/L					285	49.9	45.0 to 55.0			6.78	10
AY21819	Manganese, Dissolved	mg/L	0.0000232	0.005	0.10	3.39	3.46		0.085 to 0.115	60.9	70 to 130	2.12	20
AY21819	Potassium, Total	mg/L	0.00159	0.0946	10.0	16.2	16.9	10.3	8.5 to 11.5	102	70 to 130	4.21	20
AY21819	Calcium, Total	mg/L	-0.00132	0.22	5.00	71.5	70.5	5.04	4.25 to 5.75	74.3	70 to 130	1.42	20
AY21819	Manganese, Total	mg/L	0.00000605	0.0022	0.10	3.05	3.17	0.0927	0.085 to 0.115	120	70 to 130	3.81	20
AY21819	pH for Alkalinity	SU						6.98	6.95 to 7.05				

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total & Dissolved Iron, Total Sodium, Total & Dissolved Manganese, and Total Calcium are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGREAP
 Sample Date: 12-Sep-18
 Customer ID:
 Delivery Date: 13-Sep-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY21819

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LCS	LCS	Rec	Prec	Prec
			Limit	Limit			Duplicate	LCS	Limit	Limit	Limit	Limit
AY21819	Solids, Dissolved	mg/L	-3.00	25			346	45.0	40 to 60		1.02	5

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Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total & Dissolved Iron, Total Sodium, Total & Dissolved Manganese, and Total Calcium are out of spec. Spike amount is less than 30% of sample amount. LBM 10/22/18

CC:

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.
E	Estimated reported value exceeded calibration range.
J	Reported value is an estimate because concentration is less than reporting limit.
N	Organic constituents tentatively identified. Confirmation is needed.
R	Matrix spike recovery is out of range.
U	Compound was analyzed, but not detected.
P	Precision is out of range.
C	Analyte was verified by re-analysis.
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.
L	Check standard is outside of the required specification limit.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
F	Water Field Group (WFG) qualifier; see comments for more information



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **09/13/2018 08:00**

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	Ben Rothschild		Greene Ash Pond

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	Alkalinity	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: RS-1 River Surface Sample

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	9/10/18	14:51	4	Groundwater		AY21799
MW-21	09/10/2018	15:43	4	Groundwater		AY21800
MW-21 DUP	09/10/2018	15:43	4	Sample Duplicate		AY21801
FB-1	09/10/2018	16:10	4	Field Blank		AY21802
MW-5	09/11/2018	08:16	4	Groundwater		AY21803
MW-6	09/11/2018	09:09	4	Groundwater		AY21804
MW-7	09/11/2018	10:07	4	Groundwater		AY21805
MW-8	09/11/2018	11:18	4	Groundwater		AY21806
MW-9	09/11/2018	12:36	4	Groundwater		AY21807
MW-10	09/11/2018	13:39	4	Groundwater		AY21808
MW-12	09/11/2018	14:38	4	Groundwater		AY21809
MW-12 DUP	09/11/2018	14:38	4	Sample Duplicate		AY21810
MW-13	09/11/2018	15:40	4	Groundwater		AY21811
MW-15	09/11/2018	16:34	4	Groundwater		AY21812
FB-2	09/11/2018	16:55	4	Field Blank		AY21813
MW-14	09/12/2018	09:47	4	Groundwater		AY21814
River Sample 1	09/12/2018	10:15	4	Surface Water		AY21815
MW-16	09/12/2018	11:14	4	Groundwater		AY21816
MW-17	09/12/2018	12:04	4	Groundwater		AY21817
MW-17 DUP	09/12/2018	12:04	4	Sample Duplicate		AY21818
MW-18	09/12/2018	13:10	4	Groundwater		AY21819

Relinquished By	Received By	Date/Time
	Laura Midkiff <small>Digitally signed by Laura Midkiff DN: c=US, o=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, cn=US Date: 2018.09.13 09:30:15 -0500</small>	09/13/2018 09:30

SmarTroll ID 6496-34170-1-1
 Turbidity ID 4677-23343-4-2

All metals and radiological bottles have pH < 2
 Cooler Temp 1.2 degrees C
 Thermometer ID 5408-27568-2-2
 pH Strip ID 6959-37690-30-11



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **09/13/2018 08:05**

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	Dissolved Meta	500 mL	4	Alkalinity	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: RS-2 River Surface Sample. Dissolved metals bottles MW-26, MW-23, & MW-31 had 2mL of HNO3 (Lot#6734-35442-2-1) added on 09/13/2018 by LBM at 10:09.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	9/10/18	15:02	4	Groundwater		AY21778
MW-2	09/10/2018	16:43	4	Groundwater		AY21779
MW-30	09/11/2018	08:33	4	Groundwater		AY21780
MW-30DUP	09/11/2018	08:33	4	Sample Duplicate		AY21781
MW-29	09/11/2018	09:26	4	Groundwater		AY21782
MW-28	09/11/2018	10:12	4	Groundwater		AY21783
MW-27	09/11/2018	11:11	4	Groundwater		AY21784
MW-26	09/11/2018	12:07	4	Groundwater		AY21785
MW-24	09/11/2018	12:57	4	Groundwater		AY21786
MW-23	09/11/2018	14:10	4	Groundwater		AY21787
MW-32	09/11/2018	16:00	4	Groundwater		AY21788
MW-33	09/11/2018	16:45	4	Groundwater		AY21789
MW-31	09/11/2018	17:30	4	Groundwater		AY21790
MW-25	09/12/2018	08:02	4	Groundwater		AY21791
PZ-19	09/12/2018	10:10	4	Groundwater		AY21792
PZ-4	09/12/2018	11:38	4	Groundwater		AY21793
MW-3	09/12/2018	12:20	4	Groundwater		AY21794
FB-3	09/10/2018	17:00	4	Field Blank		AY21795
FB-4	09/12/2018	12:30	4	Field Blank		AY21796
EB-1	09/12/2018	12:50	4	Equipment Blank		AY21797
RS-2	09/12/2018	13:30	4	Surface		AY21798

Relinquished By	Received By	Date/Time
	Laura Midkiff <small>Digitally signed by Laura Midkiff DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, c=US Date: 2018.09.13 09:29:05 -0500</small>	09/13/2018 09:29

SmarTroll ID **4696-23443-3-2**
Turbidity ID **5160-26211-1-1**

All metals and radiological bottles have pH < 2
Cooler Temp **0.5 degrees C**
Thermometer ID **5408-27568-2-2**
pH Strip ID **6959-37690-30-11**



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **09/13/2018 08:00**

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Jason Arledge			Requested By	Greg Dyer	
	Ben Rothschild				Location Greene Ash Pond	

Bottles	1	Anions	250 mL	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments RS-1 River Surface Sample

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	9/10/18	14:51	1	Groundwater		AY21841
MW-21	09/10/2018	15:43	1	Groundwater		AY21842
MW-21 DUP	09/10/2018	15:43	1	Sample Duplicate		AY21843
FB-1	09/10/2018	16:10	1	Field Blank		AY21844
MW-5	09/11/2018	08:16	1	Groundwater		AY21845
MW-6	09/11/2018	09:09	1	Groundwater		AY21846
MW-7	09/11/2018	10:07	1	Groundwater		AY21847
MW-8	09/11/2018	11:18	1	Groundwater		AY21848
MW-9	09/11/2018	12:36	1	Groundwater		AY21849
MW-10	09/11/2018	13:39	1	Groundwater		AY21850
MW-12	09/11/2018	14:38	1	Groundwater		AY21851
MW-12 DUP	09/11/2018	14:38	1	Sample Duplicate		AY21852
MW-13	09/11/2018	15:40	1	Groundwater		AY21853
MW-15	09/11/2018	16:34	1	Groundwater		AY21854
FB-2	09/11/2018	16:55	1	Field Blank		AY21855
MW-14	09/12/2018	09:47	1	Groundwater		AY21856
River Sample 1	09/12/2018	10:15	1	Surface Water		AY21857
MW-16	09/12/2018	11:14	1	Groundwater		AY21858
MW-17	09/12/2018	12:04	1	Groundwater		AY21859
MW-17 DUP	09/12/2018	12:04	1	Sample Duplicate		AY21860
MW-18	09/12/2018	13:10	1	Groundwater		AY21861

Relinquished By	Received By	Date/Time
	Laura Midkiff <small>Digitally signed by Laura Midkiff DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, c=US Date: 2018.09.13 09:30:35 -0500</small>	09/13/2018 09:30

SmarTroll ID **6496-34170-1-1**
Turbidity ID **4677-23343-4-2**

All metals and radiological bottles have pH < 2
Cooler Temp **1.2 degrees C**
Thermometer ID **5408-27568-2-2**
pH Strip ID **N/A**



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **09/13/2018 08:35**

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Site Representative			Requested By	
	Jason Arledge			Greg Dyer	
Collector		Anthony Goggins	Location		Greene Ash Pond

Bottles	1	Anions	250 mL	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: RS-2 River Surface Sample

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	9/10/18	15:02	1	Groundwater		AY21820
MW-2	09/10/2018	16:43	1	Groundwater		AY21821
MW-30	09/11/2018	08:33	1	Groundwater		AY21822
MW-30DUP	09/11/2018	08:33	1	Sample Duplicate		AY21823
MW-29	09/11/2018	09:26	1	Groundwater		AY21824
MW-28	09/11/2018	10:12	1	Groundwater		AY21825
MW-27	09/11/2018	11:11	1	Groundwater		AY21826
MW-26	09/11/2018	12:07	1	Groundwater		AY21827
MW-24	09/11/2018	12:57	1	Groundwater		AY21828
MW-23	09/11/2018	14:10	1	Groundwater		AY21829
MW-32	09/11/2018	16:00	1	Groundwater		AY21830
MW-33	09/11/2018	16:45	1	Groundwater		AY21831
MW-31	09/11/2018	17:30	1	Groundwater		AY21832
MW-25	09/12/2018	08:02	1	Groundwater		AY21833
PZ-19	09/12/2018	10:10	1	Groundwater		AY21834
PZ-4	09/12/2018	11:38	1	Groundwater		AY21835
MW-3	09/12/2018	12:20	1	Groundwater		AY21836
FB-3	09/10/2018	17:00	1	Field Blank		AY21837
FB-4	09/12/2018	12:30	1	Field Blank		AY21838
EB-1	09/12/2018	12:50	1	Equipment Blank		AY21839
RS-2	09/12/2018	13:30	1	Surface		AY21840

Relinquished By	Received By	Date/Time
	Laura Midkiff <small>Digitally signed by Laura Midkiff DN: c=US, o=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, cn=US Date: 2018.09.13 09:29:49 -0500</small>	09/13/2018 09:29

SmarTroll ID **4696-23443-3-2**
Turbidity ID **5160-26211-1-1**

All metals and radiological bottles have pH < 2
Cooler Temp **0.5 degrees C**
Thermometer ID **5408-27568-2-2**
pH Strip ID **N/A**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-159368-1

TestAmerica Sample Delivery Group: Greene Ash Pond 1163

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:

10/1/2018 5:13:04 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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www.testamericainc.com

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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Case Narrative

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Job ID: 400-159368-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-159368-1

General Chemistry

Method(s) SM 4500 Cl- E: The following sample was diluted to bring the concentration of target analytes within the calibration range: AY21847 MW-7 (400-159368-28). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 412852 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method(s) SM 4500 SO4 E: Do to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-159601-A-3 MS) and (400-159601-A-3 MSD)

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 413152 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: do to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-159368-A-35 MS) and (400-159368-A-35 MSD)

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 413495 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY21820 MW-1 (400-159368-1), AY21821 MW-2 (400-159368-2), AY21833 MW-25 (400-159368-14), AY21834 PZ-19 (400-159368-15), AY21835 PZ-4 (400-159368-16), AY21840 RS-2 (400-159368-21), AY21841 MW-11 (400-159368-22), AY21842 MW-21 (400-159368-23), AY21843 MW-21 DUP (400-159368-24)AY21845 MW-5 (400-159368-26), AY21846 MW-6 (400-159368-27), AY21847 MW-7 (400-159368-28), AY21849 MW-9 (400-159368-30), AY21850 MW-10 (400-159368-31), AY21851 MW-12 (400-159368-32), AY21852 MW-12 DUP (400-159368-33), AY21853 MW-13 (400-159368-34), AY21854 MW-15 (400-159368-35), AY21856 MW-14 (400-159368-37), (400-159368-A-35 MS) and (400-159368-A-35 MSD). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: Do to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-159368-A-38 MS) and (400-159368-A-38 MSD)

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY21828 MW-24 (400-159368-9), (400-159601-A-3), (400-159601-A-3 MS),(400-159601-A-3 MSD)AY21857 RIVER SAMPLE 1 (400-159368-38), AY21858 MW-16 (400-159368-39), AY21861 MW-18 (400-159368-42), (400-159368-A-38 MS) and (400-159368-A-38 MSD). Elevated reporting limits (RLs) are provided.

Client put the incorrect sample collection date on the coc. COC has 9/11/18, should have been 9/12/18. Report revised per client request.

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21820 MW-1

Lab Sample ID: 400-159368-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	920		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21821 MW-2

Lab Sample ID: 400-159368-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	280		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21822 MW-30

Lab Sample ID: 400-159368-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY21823 MW-30 DUP

Lab Sample ID: 400-159368-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY21824 MW-29

Lab Sample ID: 400-159368-5

No Detections.

Client Sample ID: AY21825 MW-28

Lab Sample ID: 400-159368-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	8.9		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21826 MW-27

Lab Sample ID: 400-159368-7

No Detections.

Client Sample ID: AY21827 MW-26

Lab Sample ID: 400-159368-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	7.8		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21828 MW-24

Lab Sample ID: 400-159368-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	83		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21829 MW-23

Lab Sample ID: 400-159368-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	13		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21830 MW-32

Lab Sample ID: 400-159368-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.6	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21831 MW-33

Lab Sample ID: 400-159368-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.2		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	16		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21832 MW-31

Lab Sample ID: 400-159368-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.2	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21833 MW-25

Lab Sample ID: 400-159368-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	41		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21834 PZ-19

Lab Sample ID: 400-159368-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	160		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21835 PZ-4

Lab Sample ID: 400-159368-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	400		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21836 MW-3

Lab Sample ID: 400-159368-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: AY21837 FB-3

Lab Sample ID: 400-159368-18

No Detections.

Client Sample ID: AY21838 FB-4

Lab Sample ID: 400-159368-19

No Detections.

Client Sample ID: AY21839 EB-1

Lab Sample ID: 400-159368-20

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21840 RS-2

Lab Sample ID: 400-159368-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	50		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21841 MW-11

Lab Sample ID: 400-159368-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	80		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21842 MW-21

Lab Sample ID: 400-159368-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	64		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21843 MW-21 DUP

Lab Sample ID: 400-159368-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	63		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21844 FB-1

Lab Sample ID: 400-159368-25

No Detections.

Client Sample ID: AY21845 MW-5

Lab Sample ID: 400-159368-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	48		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21846 MW-6

Lab Sample ID: 400-159368-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	100		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21847 MW-7

Lab Sample ID: 400-159368-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	52		4.0	2.8	mg/L	2		SM 4500 Cl- E	Total/NA
Sulfate	360		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21848 MW-8

Lab Sample ID: 400-159368-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	23		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21849 MW-9

Lab Sample ID: 400-159368-30

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21849 MW-9 (Continued)

Lab Sample ID: 400-159368-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	33		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21850 MW-10

Lab Sample ID: 400-159368-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	29		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21851 MW-12

Lab Sample ID: 400-159368-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	63		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21852 MW-12 DUP

Lab Sample ID: 400-159368-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	63		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21853 MW-13

Lab Sample ID: 400-159368-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	62		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21854 MW-15

Lab Sample ID: 400-159368-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	140		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21855 FB-2

Lab Sample ID: 400-159368-36

No Detections.

Client Sample ID: AY21856 MW-14

Lab Sample ID: 400-159368-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	200		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21857 RIVER SAMPLE 1

Lab Sample ID: 400-159368-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	50		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21858 MW-16

Lab Sample ID: 400-159368-39

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21858 MW-16 (Continued)

Lab Sample ID: 400-159368-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	63		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21859 MW-17

Lab Sample ID: 400-159368-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	33		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21860 MW-17 DUP

Lab Sample ID: 400-159368-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	10		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: AY21861 MW-18

Lab Sample ID: 400-159368-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	28		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Method	Method Description	Protocol	Laboratory
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-159368-1	AY21820 MW-1	Water	09/10/18 15:02	09/19/18 09:40
400-159368-2	AY21821 MW-2	Water	09/10/18 16:43	09/19/18 09:40
400-159368-3	AY21822 MW-30	Water	09/11/18 08:33	09/19/18 09:40
400-159368-4	AY21823 MW-30 DUP	Water	09/11/18 08:33	09/19/18 09:40
400-159368-5	AY21824 MW-29	Water	09/11/18 09:26	09/19/18 09:40
400-159368-6	AY21825 MW-28	Water	09/11/18 10:12	09/19/18 09:40
400-159368-7	AY21826 MW-27	Water	09/11/18 11:11	09/19/18 09:40
400-159368-8	AY21827 MW-26	Water	09/11/18 12:07	09/19/18 09:40
400-159368-9	AY21828 MW-24	Water	09/11/18 12:57	09/19/18 09:40
400-159368-10	AY21829 MW-23	Water	09/11/18 14:10	09/19/18 09:40
400-159368-11	AY21830 MW-32	Water	09/11/18 16:00	09/19/18 09:40
400-159368-12	AY21831 MW-33	Water	09/11/18 16:45	09/19/18 09:40
400-159368-13	AY21832 MW-31	Water	09/11/18 17:30	09/19/18 09:40
400-159368-14	AY21833 MW-25	Water	09/12/18 08:02	09/19/18 09:40
400-159368-15	AY21834 PZ-19	Water	09/12/18 10:10	09/19/18 09:40
400-159368-16	AY21835 PZ-4	Water	09/12/18 11:38	09/19/18 09:40
400-159368-17	AY21836 MW-3	Water	09/12/18 12:20	09/19/18 09:40
400-159368-18	AY21837 FB-3	Water	09/10/18 17:00	09/19/18 09:40
400-159368-19	AY21838 FB-4	Water	09/12/18 12:30	09/19/18 09:40
400-159368-20	AY21839 EB-1	Water	09/12/18 12:50	09/19/18 09:40
400-159368-21	AY21840 RS-2	Water	09/12/18 13:30	09/19/18 09:40
400-159368-22	AY21841 MW-11	Water	09/10/18 14:51	09/19/18 09:40
400-159368-23	AY21842 MW-21	Water	09/10/18 15:43	09/19/18 09:40
400-159368-24	AY21843 MW-21 DUP	Water	09/10/18 15:43	09/19/18 09:40
400-159368-25	AY21844 FB-1	Water	09/10/18 16:10	09/19/18 09:40
400-159368-26	AY21845 MW-5	Water	09/11/18 08:16	09/19/18 09:40
400-159368-27	AY21846 MW-6	Water	09/11/18 09:09	09/19/18 09:40
400-159368-28	AY21847 MW-7	Water	09/11/18 10:07	09/19/18 09:40
400-159368-29	AY21848 MW-8	Water	09/11/18 11:18	09/19/18 09:40
400-159368-30	AY21849 MW-9	Water	09/11/18 12:36	09/19/18 09:40
400-159368-31	AY21850 MW-10	Water	09/11/18 13:39	09/19/18 09:40
400-159368-32	AY21851 MW-12	Water	09/11/18 14:38	09/19/18 09:40
400-159368-33	AY21852 MW-12 DUP	Water	09/11/18 14:38	09/19/18 09:40
400-159368-34	AY21853 MW-13	Water	09/11/18 15:40	09/19/18 09:40
400-159368-35	AY21854 MW-15	Water	09/11/18 16:34	09/19/18 09:40
400-159368-36	AY21855 FB-2	Water	09/11/18 16:55	09/19/18 09:40
400-159368-37	AY21856 MW-14	Water	09/12/18 09:47	09/19/18 09:40
400-159368-38	AY21857 RIVER SAMPLE 1	Water	09/12/18 10:15	09/19/18 09:40
400-159368-39	AY21858 MW-16	Water	09/12/18 11:14	09/19/18 09:40
400-159368-40	AY21859 MW-17	Water	09/12/18 12:04	09/19/18 09:40
400-159368-41	AY21860 MW-17 DUP	Water	09/12/18 12:04	09/19/18 09:40
400-159368-42	AY21861 MW-18	Water	09/12/18 13:10	09/19/18 09:40

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21820 MW-1

Lab Sample ID: 400-159368-1

Date Collected: 09/10/18 15:02

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		2.0	1.4	mg/L			09/24/18 13:30	1
Sulfate	920		200	56	mg/L			09/25/18 14:23	40

Client Sample ID: AY21821 MW-2

Lab Sample ID: 400-159368-2

Date Collected: 09/10/18 16:43

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			09/24/18 13:40	1
Sulfate	280		50	14	mg/L			09/25/18 11:20	10

Client Sample ID: AY21822 MW-30

Lab Sample ID: 400-159368-3

Date Collected: 09/11/18 08:33

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5	J	2.0	1.4	mg/L			09/26/18 18:32	1
Sulfate	<1.4		5.0	1.4	mg/L			09/25/18 10:45	1

Client Sample ID: AY21823 MW-30 DUP

Lab Sample ID: 400-159368-4

Date Collected: 09/11/18 08:33

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6	J	2.0	1.4	mg/L			09/26/18 18:32	1
Sulfate	<1.4		5.0	1.4	mg/L			09/25/18 10:45	1

Client Sample ID: AY21824 MW-29

Lab Sample ID: 400-159368-5

Date Collected: 09/11/18 09:26

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/26/18 18:32	1
Sulfate	<1.4		5.0	1.4	mg/L			09/25/18 10:45	1

Client Sample ID: AY21825 MW-28

Lab Sample ID: 400-159368-6

Date Collected: 09/11/18 10:12

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/26/18 18:32	1
Sulfate	8.9		5.0	1.4	mg/L			09/27/18 11:40	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21826 MW-27

Date Collected: 09/11/18 11:11

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/29/18 10:13	1
Sulfate	<1.4		5.0	1.4	mg/L			09/27/18 11:40	1

Client Sample ID: AY21827 MW-26

Date Collected: 09/11/18 12:07

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5	J	2.0	1.4	mg/L			09/29/18 10:41	1
Sulfate	7.8		5.0	1.4	mg/L			09/27/18 11:35	1

Client Sample ID: AY21828 MW-24

Date Collected: 09/11/18 12:57

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.1		2.0	1.4	mg/L			09/29/18 10:13	1
Sulfate	83		25	7.0	mg/L			09/27/18 13:03	5

Client Sample ID: AY21829 MW-23

Date Collected: 09/11/18 14:10

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-10

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5	J	2.0	1.4	mg/L			09/29/18 10:14	1
Sulfate	13		5.0	1.4	mg/L			09/27/18 11:40	1

Client Sample ID: AY21830 MW-32

Date Collected: 09/11/18 16:00

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-11

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		2.0	1.4	mg/L			09/29/18 10:13	1
Sulfate	1.6	J	5.0	1.4	mg/L			09/27/18 11:40	1

Client Sample ID: AY21831 MW-33

Date Collected: 09/11/18 16:45

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-12

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		2.0	1.4	mg/L			09/29/18 10:14	1
Sulfate	16		5.0	1.4	mg/L			09/27/18 11:40	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21832 MW-31

Lab Sample ID: 400-159368-13

Date Collected: 09/11/18 17:30

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		2.0	1.4	mg/L			09/29/18 10:14	1
Sulfate	2.2	J	5.0	1.4	mg/L			09/29/18 12:59	1

Client Sample ID: AY21833 MW-25

Lab Sample ID: 400-159368-14

Date Collected: 09/12/18 08:02

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	41		25	7.0	mg/L			09/29/18 13:53	5

Client Sample ID: AY21834 PZ-19

Lab Sample ID: 400-159368-15

Date Collected: 09/12/18 10:10

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	160		50	14	mg/L			09/29/18 13:53	10

Client Sample ID: AY21835 PZ-4

Lab Sample ID: 400-159368-16

Date Collected: 09/12/18 11:38

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	400		100	28	mg/L			09/29/18 13:58	20

Client Sample ID: AY21836 MW-3

Lab Sample ID: 400-159368-17

Date Collected: 09/12/18 12:20

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	<1.4		5.0	1.4	mg/L			09/29/18 13:04	1

Client Sample ID: AY21837 FB-3

Lab Sample ID: 400-159368-18

Date Collected: 09/10/18 17:00

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/24/18 13:40	1
Sulfate	<1.4		5.0	1.4	mg/L			09/25/18 10:40	1

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21838 FB-4

Lab Sample ID: 400-159368-19

Date Collected: 09/12/18 12:30

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	<1.4		5.0	1.4	mg/L			09/29/18 13:04	1

Client Sample ID: AY21839 EB-1

Lab Sample ID: 400-159368-20

Date Collected: 09/12/18 12:50

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	<1.4		5.0	1.4	mg/L			09/29/18 13:04	1

Client Sample ID: AY21840 RS-2

Lab Sample ID: 400-159368-21

Date Collected: 09/12/18 13:30

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.0	1.4	mg/L			09/29/18 11:16	1
Sulfate	50		25	7.0	mg/L			09/29/18 13:58	5

Client Sample ID: AY21841 MW-11

Lab Sample ID: 400-159368-22

Date Collected: 09/10/18 14:51

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	1.4	mg/L			09/24/18 13:40	1
Sulfate	80		25	7.0	mg/L			09/25/18 11:20	5

Client Sample ID: AY21842 MW-21

Lab Sample ID: 400-159368-23

Date Collected: 09/10/18 15:43

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		2.0	1.4	mg/L			09/26/18 18:32	1
Sulfate	64		25	7.0	mg/L			09/25/18 11:23	5

Client Sample ID: AY21843 MW-21 DUP

Lab Sample ID: 400-159368-24

Date Collected: 09/10/18 15:43

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		2.0	1.4	mg/L			09/26/18 18:25	1
Sulfate	63		25	7.0	mg/L			09/25/18 11:23	5

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21844 FB-1

Lab Sample ID: 400-159368-25

Date Collected: 09/10/18 16:10

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/26/18 18:32	1
Sulfate	<1.4		5.0	1.4	mg/L			09/25/18 10:45	1

Client Sample ID: AY21845 MW-5

Lab Sample ID: 400-159368-26

Date Collected: 09/11/18 08:16

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	1.4	mg/L			09/29/18 10:20	1
Sulfate	48		25	7.0	mg/L			09/29/18 13:45	5

Client Sample ID: AY21846 MW-6

Lab Sample ID: 400-159368-27

Date Collected: 09/11/18 09:09

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36		2.0	1.4	mg/L			09/29/18 10:20	1
Sulfate	100		25	7.0	mg/L			09/29/18 13:49	5

Client Sample ID: AY21847 MW-7

Lab Sample ID: 400-159368-28

Date Collected: 09/11/18 10:07

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		4.0	2.8	mg/L			09/29/18 10:42	2
Sulfate	360		100	28	mg/L			09/29/18 14:37	20

Client Sample ID: AY21848 MW-8

Lab Sample ID: 400-159368-29

Date Collected: 09/11/18 11:18

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		2.0	1.4	mg/L			09/29/18 10:20	1
Sulfate	23		5.0	1.4	mg/L			09/29/18 12:59	1

Client Sample ID: AY21849 MW-9

Lab Sample ID: 400-159368-30

Date Collected: 09/11/18 12:36

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	1.4	mg/L			09/29/18 10:20	1
Sulfate	33		10	2.8	mg/L			09/29/18 13:49	2

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21850 MW-10

Lab Sample ID: 400-159368-31

Date Collected: 09/11/18 13:39

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		2.0	1.4	mg/L			09/29/18 10:21	1
Sulfate	29		10	2.8	mg/L			09/29/18 13:49	2

Client Sample ID: AY21851 MW-12

Lab Sample ID: 400-159368-32

Date Collected: 09/11/18 14:38

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		2.0	1.4	mg/L			09/29/18 10:21	1
Sulfate	63		25	7.0	mg/L			09/29/18 13:53	5

Client Sample ID: AY21852 MW-12 DUP

Lab Sample ID: 400-159368-33

Date Collected: 09/11/18 14:38

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		2.0	1.4	mg/L			09/29/18 10:21	1
Sulfate	63		25	7.0	mg/L			09/29/18 13:58	5

Client Sample ID: AY21853 MW-13

Lab Sample ID: 400-159368-34

Date Collected: 09/11/18 15:40

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	1.4	mg/L			09/29/18 10:21	1
Sulfate	62		25	7.0	mg/L			09/29/18 13:58	5

Client Sample ID: AY21854 MW-15

Lab Sample ID: 400-159368-35

Date Collected: 09/11/18 16:34

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	1.4	mg/L			09/29/18 11:13	1
Sulfate	140		50	14	mg/L			09/29/18 13:45	10

Client Sample ID: AY21855 FB-2

Lab Sample ID: 400-159368-36

Date Collected: 09/11/18 16:55

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/29/18 11:13	1
Sulfate	<1.4		5.0	1.4	mg/L			09/29/18 13:04	1

TestAmerica Pensacola

Client Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21856 MW-14

Lab Sample ID: 400-159368-37

Date Collected: 09/12/18 09:47

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	1.4	mg/L			09/29/18 11:13	1
Sulfate	200		50	14	mg/L			09/29/18 13:53	10

Client Sample ID: AY21857 RIVER SAMPLE 1

Lab Sample ID: 400-159368-38

Date Collected: 09/12/18 10:15

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			09/29/18 11:23	1
Sulfate	50		25	7.0	mg/L			09/29/18 15:37	5

Client Sample ID: AY21858 MW-16

Lab Sample ID: 400-159368-39

Date Collected: 09/12/18 11:14

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		2.0	1.4	mg/L			09/29/18 11:23	1
Sulfate	63		25	7.0	mg/L			09/29/18 15:44	5

Client Sample ID: AY21859 MW-17

Lab Sample ID: 400-159368-40

Date Collected: 09/12/18 12:04

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		2.0	1.4	mg/L			09/29/18 11:23	1
Sulfate	33		5.0	1.4	mg/L			09/29/18 15:13	1

Client Sample ID: AY21860 MW-17 DUP

Lab Sample ID: 400-159368-41

Date Collected: 09/12/18 12:04

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	1.4	mg/L			09/29/18 11:23	1
Sulfate	10		5.0	1.4	mg/L			09/29/18 15:20	1

Client Sample ID: AY21861 MW-18

Lab Sample ID: 400-159368-42

Date Collected: 09/12/18 13:10

Matrix: Water

Date Received: 09/19/18 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		2.0	1.4	mg/L			09/29/18 11:23	1
Sulfate	28		10	2.8	mg/L			09/29/18 15:37	2

TestAmerica Pensacola

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Qualifiers

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
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

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21820 MW-1

Date Collected: 09/10/18 15:02

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	412709	09/24/18 13:30	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	412852	09/25/18 14:23	RRC	TAL PEN

Client Sample ID: AY21821 MW-2

Date Collected: 09/10/18 16:43

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	412709	09/24/18 13:40	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	412852	09/25/18 11:20	RRC	TAL PEN

Client Sample ID: AY21822 MW-30

Date Collected: 09/11/18 08:33

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:32	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	412852	09/25/18 10:45	RRC	TAL PEN

Client Sample ID: AY21823 MW-30 DUP

Date Collected: 09/11/18 08:33

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:32	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	412852	09/25/18 10:45	RRC	TAL PEN

Client Sample ID: AY21824 MW-29

Date Collected: 09/11/18 09:26

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:32	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	412852	09/25/18 10:45	RRC	TAL PEN

Client Sample ID: AY21825 MW-28

Date Collected: 09/11/18 10:12

Date Received: 09/19/18 09:40

Lab Sample ID: 400-159368-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:32	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21825 MW-28

Lab Sample ID: 400-159368-6

Date Collected: 09/11/18 10:12

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	413152	09/27/18 11:40	RRC	TAL PEN

Client Sample ID: AY21826 MW-27

Lab Sample ID: 400-159368-7

Date Collected: 09/11/18 11:11

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413152	09/27/18 11:40	RRC	TAL PEN

Client Sample ID: AY21827 MW-26

Lab Sample ID: 400-159368-8

Date Collected: 09/11/18 12:07

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:41	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413152	09/27/18 11:35	RRC	TAL PEN

Client Sample ID: AY21828 MW-24

Lab Sample ID: 400-159368-9

Date Collected: 09/11/18 12:57

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413152	09/27/18 13:03	RRC	TAL PEN

Client Sample ID: AY21829 MW-23

Lab Sample ID: 400-159368-10

Date Collected: 09/11/18 14:10

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:14	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413152	09/27/18 11:40	RRC	TAL PEN

Client Sample ID: AY21830 MW-32

Lab Sample ID: 400-159368-11

Date Collected: 09/11/18 16:00

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413152	09/27/18 11:40	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21831 MW-33

Lab Sample ID: 400-159368-12

Date Collected: 09/11/18 16:45

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:14	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413152	09/27/18 11:40	RRC	TAL PEN

Client Sample ID: AY21832 MW-31

Lab Sample ID: 400-159368-13

Date Collected: 09/11/18 17:30

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:14	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413495	09/29/18 12:59	RRC	TAL PEN

Client Sample ID: AY21833 MW-25

Lab Sample ID: 400-159368-14

Date Collected: 09/12/18 08:02

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:53	RRC	TAL PEN

Client Sample ID: AY21834 PZ-19

Lab Sample ID: 400-159368-15

Date Collected: 09/12/18 10:10

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	413495	09/29/18 13:53	RRC	TAL PEN

Client Sample ID: AY21835 PZ-4

Lab Sample ID: 400-159368-16

Date Collected: 09/12/18 11:38

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	413495	09/29/18 13:58	RRC	TAL PEN

Client Sample ID: AY21836 MW-3

Lab Sample ID: 400-159368-17

Date Collected: 09/12/18 12:20

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Client Sample ID: AY21836 MW-3

Lab Sample ID: 400-159368-17

Date Collected: 09/12/18 12:20

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	413495	09/29/18 13:04	RRC	TAL PEN

Client Sample ID: AY21837 FB-3

Lab Sample ID: 400-159368-18

Date Collected: 09/10/18 17:00

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	412709	09/24/18 13:40	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	412852	09/25/18 10:40	RRC	TAL PEN

Client Sample ID: AY21838 FB-4

Lab Sample ID: 400-159368-19

Date Collected: 09/12/18 12:30

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413495	09/29/18 13:04	RRC	TAL PEN

Client Sample ID: AY21839 EB-1

Lab Sample ID: 400-159368-20

Date Collected: 09/12/18 12:50

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413495	09/29/18 13:04	RRC	TAL PEN

Client Sample ID: AY21840 RS-2

Lab Sample ID: 400-159368-21

Date Collected: 09/12/18 13:30

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:58	RRC	TAL PEN

Client Sample ID: AY21841 MW-11

Lab Sample ID: 400-159368-22

Date Collected: 09/10/18 14:51

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	412709	09/24/18 13:40	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	412852	09/25/18 11:20	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21842 MW-21

Lab Sample ID: 400-159368-23

Date Collected: 09/10/18 15:43

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:32	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	412852	09/25/18 11:23	RRC	TAL PEN

Client Sample ID: AY21843 MW-21 DUP

Lab Sample ID: 400-159368-24

Date Collected: 09/10/18 15:43

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:25	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	412852	09/25/18 11:23	RRC	TAL PEN

Client Sample ID: AY21844 FB-1

Lab Sample ID: 400-159368-25

Date Collected: 09/10/18 16:10

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413082	09/26/18 18:32	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	412852	09/25/18 10:45	RRC	TAL PEN

Client Sample ID: AY21845 MW-5

Lab Sample ID: 400-159368-26

Date Collected: 09/11/18 08:16

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:45	RRC	TAL PEN

Client Sample ID: AY21846 MW-6

Lab Sample ID: 400-159368-27

Date Collected: 09/11/18 09:09

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:49	RRC	TAL PEN

Client Sample ID: AY21847 MW-7

Lab Sample ID: 400-159368-28

Date Collected: 09/11/18 10:07

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	413455	09/29/18 10:42	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21847 MW-7

Lab Sample ID: 400-159368-28

Date Collected: 09/11/18 10:07

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		20	413495	09/29/18 14:37	RRC	TAL PEN

Client Sample ID: AY21848 MW-8

Lab Sample ID: 400-159368-29

Date Collected: 09/11/18 11:18

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413495	09/29/18 12:59	RRC	TAL PEN

Client Sample ID: AY21849 MW-9

Lab Sample ID: 400-159368-30

Date Collected: 09/11/18 12:36

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:20	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	413495	09/29/18 13:49	RRC	TAL PEN

Client Sample ID: AY21850 MW-10

Lab Sample ID: 400-159368-31

Date Collected: 09/11/18 13:39

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:21	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	413495	09/29/18 13:49	RRC	TAL PEN

Client Sample ID: AY21851 MW-12

Lab Sample ID: 400-159368-32

Date Collected: 09/11/18 14:38

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:21	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:53	RRC	TAL PEN

Client Sample ID: AY21852 MW-12 DUP

Lab Sample ID: 400-159368-33

Date Collected: 09/11/18 14:38

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:21	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:58	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21853 MW-13

Lab Sample ID: 400-159368-34

Date Collected: 09/11/18 15:40

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413455	09/29/18 10:21	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413495	09/29/18 13:58	RRC	TAL PEN

Client Sample ID: AY21854 MW-15

Lab Sample ID: 400-159368-35

Date Collected: 09/11/18 16:34

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	413495	09/29/18 13:45	RRC	TAL PEN

Client Sample ID: AY21855 FB-2

Lab Sample ID: 400-159368-36

Date Collected: 09/11/18 16:55

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413495	09/29/18 13:04	RRC	TAL PEN

Client Sample ID: AY21856 MW-14

Lab Sample ID: 400-159368-37

Date Collected: 09/12/18 09:47

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:13	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	413495	09/29/18 13:53	RRC	TAL PEN

Client Sample ID: AY21857 RIVER SAMPLE 1

Lab Sample ID: 400-159368-38

Date Collected: 09/12/18 10:15

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	413499	09/29/18 15:37	RRC	TAL PEN

Client Sample ID: AY21858 MW-16

Lab Sample ID: 400-159368-39

Date Collected: 09/12/18 11:14

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:23	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

Client Sample ID: AY21858 MW-16

Lab Sample ID: 400-159368-39

Date Collected: 09/12/18 11:14

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		5	413499	09/29/18 15:44	RRC	TAL PEN

Client Sample ID: AY21859 MW-17

Lab Sample ID: 400-159368-40

Date Collected: 09/12/18 12:04

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413499	09/29/18 15:13	RRC	TAL PEN

Client Sample ID: AY21860 MW-17 DUP

Lab Sample ID: 400-159368-41

Date Collected: 09/12/18 12:04

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	413499	09/29/18 15:20	RRC	TAL PEN

Client Sample ID: AY21861 MW-18

Lab Sample ID: 400-159368-42

Date Collected: 09/12/18 13:10

Matrix: Water

Date Received: 09/19/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	413476	09/29/18 11:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	413499	09/29/18 15:37	RRC	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

General Chemistry

Analysis Batch: 412709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-1	AY21820 MW-1	Total/NA	Water	SM 4500 CI- E	
400-159368-2	AY21821 MW-2	Total/NA	Water	SM 4500 CI- E	
400-159368-18	AY21837 FB-3	Total/NA	Water	SM 4500 CI- E	
400-159368-22	AY21841 MW-11	Total/NA	Water	SM 4500 CI- E	
MB 400-412709/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-412709/41	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-412709/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-159368-1 MS	AY21820 MW-1	Total/NA	Water	SM 4500 CI- E	
400-159368-1 MSD	AY21820 MW-1	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 412852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-1	AY21820 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-159368-2	AY21821 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-159368-3	AY21822 MW-30	Total/NA	Water	SM 4500 SO4 E	
400-159368-4	AY21823 MW-30 DUP	Total/NA	Water	SM 4500 SO4 E	
400-159368-5	AY21824 MW-29	Total/NA	Water	SM 4500 SO4 E	
400-159368-18	AY21837 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-159368-22	AY21841 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-159368-23	AY21842 MW-21	Total/NA	Water	SM 4500 SO4 E	
400-159368-24	AY21843 MW-21 DUP	Total/NA	Water	SM 4500 SO4 E	
400-159368-25	AY21844 FB-1	Total/NA	Water	SM 4500 SO4 E	
MB 400-412852/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-412852/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-412852/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-159368-18 MS	AY21837 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-159368-18 MSD	AY21837 FB-3	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 413082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-3	AY21822 MW-30	Total/NA	Water	SM 4500 CI- E	
400-159368-4	AY21823 MW-30 DUP	Total/NA	Water	SM 4500 CI- E	
400-159368-5	AY21824 MW-29	Total/NA	Water	SM 4500 CI- E	
400-159368-6	AY21825 MW-28	Total/NA	Water	SM 4500 CI- E	
400-159368-23	AY21842 MW-21	Total/NA	Water	SM 4500 CI- E	
400-159368-24	AY21843 MW-21 DUP	Total/NA	Water	SM 4500 CI- E	
400-159368-25	AY21844 FB-1	Total/NA	Water	SM 4500 CI- E	
MB 400-413082/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-413082/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-413082/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-159368-24 MS	AY21843 MW-21 DUP	Total/NA	Water	SM 4500 CI- E	
400-159368-24 MSD	AY21843 MW-21 DUP	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 413152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-6	AY21825 MW-28	Total/NA	Water	SM 4500 SO4 E	
400-159368-7	AY21826 MW-27	Total/NA	Water	SM 4500 SO4 E	
400-159368-8	AY21827 MW-26	Total/NA	Water	SM 4500 SO4 E	
400-159368-9	AY21828 MW-24	Total/NA	Water	SM 4500 SO4 E	
400-159368-10	AY21829 MW-23	Total/NA	Water	SM 4500 SO4 E	
400-159368-11	AY21830 MW-32	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

General Chemistry (Continued)

Analysis Batch: 413152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-12	AY21831 MW-33	Total/NA	Water	SM 4500 SO4 E	
MB 400-413152/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-413152/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-413152/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-159368-8 MS	AY21827 MW-26	Total/NA	Water	SM 4500 SO4 E	
400-159368-8 MSD	AY21827 MW-26	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 413455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-7	AY21826 MW-27	Total/NA	Water	SM 4500 Cl- E	
400-159368-8	AY21827 MW-26	Total/NA	Water	SM 4500 Cl- E	
400-159368-9	AY21828 MW-24	Total/NA	Water	SM 4500 Cl- E	
400-159368-10	AY21829 MW-23	Total/NA	Water	SM 4500 Cl- E	
400-159368-11	AY21830 MW-32	Total/NA	Water	SM 4500 Cl- E	
400-159368-12	AY21831 MW-33	Total/NA	Water	SM 4500 Cl- E	
400-159368-13	AY21832 MW-31	Total/NA	Water	SM 4500 Cl- E	
400-159368-26	AY21845 MW-5	Total/NA	Water	SM 4500 Cl- E	
400-159368-27	AY21846 MW-6	Total/NA	Water	SM 4500 Cl- E	
400-159368-28	AY21847 MW-7	Total/NA	Water	SM 4500 Cl- E	
400-159368-29	AY21848 MW-8	Total/NA	Water	SM 4500 Cl- E	
400-159368-30	AY21849 MW-9	Total/NA	Water	SM 4500 Cl- E	
400-159368-31	AY21850 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-159368-32	AY21851 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-159368-33	AY21852 MW-12 DUP	Total/NA	Water	SM 4500 Cl- E	
400-159368-34	AY21853 MW-13	Total/NA	Water	SM 4500 Cl- E	
MB 400-413455/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-413455/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-413455/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-159368-10 MS	AY21829 MW-23	Total/NA	Water	SM 4500 Cl- E	
400-159368-10 MSD	AY21829 MW-23	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 413476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-14	AY21833 MW-25	Total/NA	Water	SM 4500 Cl- E	
400-159368-15	AY21834 PZ-19	Total/NA	Water	SM 4500 Cl- E	
400-159368-16	AY21835 PZ-4	Total/NA	Water	SM 4500 Cl- E	
400-159368-17	AY21836 MW-3	Total/NA	Water	SM 4500 Cl- E	
400-159368-19	AY21838 FB-4	Total/NA	Water	SM 4500 Cl- E	
400-159368-20	AY21839 EB-1	Total/NA	Water	SM 4500 Cl- E	
400-159368-21	AY21840 RS-2	Total/NA	Water	SM 4500 Cl- E	
400-159368-35	AY21854 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-159368-36	AY21855 FB-2	Total/NA	Water	SM 4500 Cl- E	
400-159368-37	AY21856 MW-14	Total/NA	Water	SM 4500 Cl- E	
400-159368-38	AY21857 RIVER SAMPLE 1	Total/NA	Water	SM 4500 Cl- E	
400-159368-39	AY21858 MW-16	Total/NA	Water	SM 4500 Cl- E	
400-159368-40	AY21859 MW-17	Total/NA	Water	SM 4500 Cl- E	
400-159368-41	AY21860 MW-17 DUP	Total/NA	Water	SM 4500 Cl- E	
400-159368-42	AY21861 MW-18	Total/NA	Water	SM 4500 Cl- E	
MB 400-413476/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-413476/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-413476/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
SDG: Greene Ash Pond 1163

General Chemistry (Continued)

Analysis Batch: 413476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-35 MS	AY21854 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-159368-35 MSD	AY21854 MW-15	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 413495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-13	AY21832 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-159368-14	AY21833 MW-25	Total/NA	Water	SM 4500 SO4 E	
400-159368-15	AY21834 PZ-19	Total/NA	Water	SM 4500 SO4 E	
400-159368-16	AY21835 PZ-4	Total/NA	Water	SM 4500 SO4 E	
400-159368-17	AY21836 MW-3	Total/NA	Water	SM 4500 SO4 E	
400-159368-19	AY21838 FB-4	Total/NA	Water	SM 4500 SO4 E	
400-159368-20	AY21839 EB-1	Total/NA	Water	SM 4500 SO4 E	
400-159368-21	AY21840 RS-2	Total/NA	Water	SM 4500 SO4 E	
400-159368-26	AY21845 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-159368-27	AY21846 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-159368-28	AY21847 MW-7	Total/NA	Water	SM 4500 SO4 E	
400-159368-29	AY21848 MW-8	Total/NA	Water	SM 4500 SO4 E	
400-159368-30	AY21849 MW-9	Total/NA	Water	SM 4500 SO4 E	
400-159368-31	AY21850 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-159368-32	AY21851 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-159368-33	AY21852 MW-12 DUP	Total/NA	Water	SM 4500 SO4 E	
400-159368-34	AY21853 MW-13	Total/NA	Water	SM 4500 SO4 E	
400-159368-35	AY21854 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-159368-36	AY21855 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-159368-37	AY21856 MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 400-413495/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-413495/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-413495/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-159368-13 MS	AY21832 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-159368-13 MSD	AY21832 MW-31	Total/NA	Water	SM 4500 SO4 E	
400-159368-35 MS	AY21854 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-159368-35 MSD	AY21854 MW-15	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 413499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-159368-38	AY21857 RIVER SAMPLE 1	Total/NA	Water	SM 4500 SO4 E	
400-159368-39	AY21858 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-159368-40	AY21859 MW-17	Total/NA	Water	SM 4500 SO4 E	
400-159368-41	AY21860 MW-17 DUP	Total/NA	Water	SM 4500 SO4 E	
400-159368-42	AY21861 MW-18	Total/NA	Water	SM 4500 SO4 E	
MB 400-413499/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-413499/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-413499/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-159368-38 MS	AY21857 RIVER SAMPLE 1	Total/NA	Water	SM 4500 SO4 E	
400-159368-38 MSD	AY21857 RIVER SAMPLE 1	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-412709/6
Matrix: Water
Analysis Batch: 412709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/24/18 13:30	1

Lab Sample ID: LCS 400-412709/41
Matrix: Water
Analysis Batch: 412709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.0		mg/L		103	90 - 110

Lab Sample ID: MRL 400-412709/3
Matrix: Water
Analysis Batch: 412709

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.65	J	mg/L		82	50 - 150

Lab Sample ID: 400-159368-1 MS
Matrix: Water
Analysis Batch: 412709

Client Sample ID: AY21820 MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	22		10.0	31.6		mg/L		101	73 - 120

Lab Sample ID: 400-159368-1 MSD
Matrix: Water
Analysis Batch: 412709

Client Sample ID: AY21820 MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22		10.0	31.8		mg/L		102	73 - 120	0	8

Lab Sample ID: MB 400-413082/6
Matrix: Water
Analysis Batch: 413082

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/26/18 18:22	1

Lab Sample ID: LCS 400-413082/7
Matrix: Water
Analysis Batch: 413082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.5		mg/L		108	90 - 110

Lab Sample ID: MRL 400-413082/3
Matrix: Water
Analysis Batch: 413082

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.50	J	mg/L		75	50 - 150

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Lab Sample ID: 400-159368-24 MS
Matrix: Water
Analysis Batch: 413082

Client Sample ID: AY21843 MW-21 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		10.0	22.9		mg/L		107	73 - 120

Lab Sample ID: 400-159368-24 MSD
Matrix: Water
Analysis Batch: 413082

Client Sample ID: AY21843 MW-21 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	12		10.0	22.6		mg/L		104	73 - 120	1	8

Lab Sample ID: MB 400-413455/6
Matrix: Water
Analysis Batch: 413455

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/29/18 10:10	1

Lab Sample ID: LCS 400-413455/7
Matrix: Water
Analysis Batch: 413455

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.5		mg/L		108	90 - 110

Lab Sample ID: MRL 400-413455/3
Matrix: Water
Analysis Batch: 413455

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.98	J	mg/L		99	50 - 150

Lab Sample ID: 400-159368-10 MS
Matrix: Water
Analysis Batch: 413455

Client Sample ID: AY21829 MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5	J	10.0	13.0		mg/L		114	73 - 120

Lab Sample ID: 400-159368-10 MSD
Matrix: Water
Analysis Batch: 413455

Client Sample ID: AY21829 MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	1.5	J	10.0	12.7		mg/L		112	73 - 120	2	8

Lab Sample ID: MB 400-413476/6
Matrix: Water
Analysis Batch: 413476

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.4		2.0	1.4	mg/L			09/29/18 11:13	1

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-413476/7
Matrix: Water
Analysis Batch: 413476

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.7		mg/L		109	90 - 110

Lab Sample ID: MRL 400-413476/3
Matrix: Water
Analysis Batch: 413476

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.81	J	mg/L		91	50 - 150

Lab Sample ID: 400-159368-35 MS
Matrix: Water
Analysis Batch: 413476

Client Sample ID: AY21854 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14		10.0	24.4		mg/L		106	73 - 120

Lab Sample ID: 400-159368-35 MSD
Matrix: Water
Analysis Batch: 413476

Client Sample ID: AY21854 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14		10.0	24.4		mg/L		106	73 - 120	0	8

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-412852/6
Matrix: Water
Analysis Batch: 412852

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			09/25/18 10:34	1

Lab Sample ID: LCS 400-412852/7
Matrix: Water
Analysis Batch: 412852

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.2		mg/L		101	90 - 110

Lab Sample ID: MRL 400-412852/3
Matrix: Water
Analysis Batch: 412852

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.00	J	mg/L		80	50 - 150

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-159368-18 MS

Matrix: Water
Analysis Batch: 412852

Client Sample ID: AY21837 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	9.45		mg/L		95	77 - 128

Lab Sample ID: 400-159368-18 MSD

Matrix: Water
Analysis Batch: 412852

Client Sample ID: AY21837 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	9.44		mg/L		94	77 - 128	0	5

Lab Sample ID: MB 400-413152/6

Matrix: Water
Analysis Batch: 413152

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			09/27/18 11:29	1

Lab Sample ID: LCS 400-413152/7

Matrix: Water
Analysis Batch: 413152

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.7		mg/L		105	90 - 110

Lab Sample ID: MRL 400-413152/3

Matrix: Water
Analysis Batch: 413152

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.41	J	mg/L		88	50 - 150

Lab Sample ID: 400-159368-8 MS

Matrix: Water
Analysis Batch: 413152

Client Sample ID: AY21827 MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.8		10.0	18.8		mg/L		110	77 - 128

Lab Sample ID: 400-159368-8 MSD

Matrix: Water
Analysis Batch: 413152

Client Sample ID: AY21827 MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.8		10.0	18.6		mg/L		108	77 - 128	1	5

Lab Sample ID: MB 400-413495/6

Matrix: Water
Analysis Batch: 413495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			09/29/18 12:53	1

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Lab Sample ID: LCS 400-413495/7
Matrix: Water
Analysis Batch: 413495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.5		mg/L		97	90 - 110

Lab Sample ID: MRL 400-413495/3
Matrix: Water
Analysis Batch: 413495

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	3.49	J	mg/L		70	50 - 150

Lab Sample ID: 400-159368-13 MS
Matrix: Water
Analysis Batch: 413495

Client Sample ID: AY21832 MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.2	J	10.0	12.6		mg/L		105	77 - 128

Lab Sample ID: 400-159368-13 MSD
Matrix: Water
Analysis Batch: 413495

Client Sample ID: AY21832 MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2.2	J	10.0	12.6		mg/L		105	77 - 128	0	5

Lab Sample ID: 400-159368-35 MS
Matrix: Water
Analysis Batch: 413495

Client Sample ID: AY21854 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	140		10.0	147	4	mg/L		32	77 - 128

Lab Sample ID: 400-159368-35 MSD
Matrix: Water
Analysis Batch: 413495

Client Sample ID: AY21854 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	140		10.0	147	4	mg/L		33	77 - 128	0	5

Lab Sample ID: MB 400-413499/6
Matrix: Water
Analysis Batch: 413499

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			09/29/18 15:13	1

Lab Sample ID: LCS 400-413499/7
Matrix: Water
Analysis Batch: 413499

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.6		mg/L		97	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MRL 400-413499/3
Matrix: Water
Analysis Batch: 413499

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	3.44	J	mg/L		69	50 - 150

Lab Sample ID: 400-159368-38 MS
Matrix: Water
Analysis Batch: 413499

Client Sample ID: AY21857 RIVER SAMPLE 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50		10.0	60.3	4	mg/L		104	77 - 128

Lab Sample ID: 400-159368-38 MSD
Matrix: Water
Analysis Batch: 413499

Client Sample ID: AY21857 RIVER SAMPLE 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50		10.0	58.7	4	mg/L		87	77 - 128	3	5

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

Client Information
 Client Contact:
 Laura Mickliff
 Lab PM:
 Whitmore, Cheyanne R
 E-Mail:
 cheyanne.whitmore@testamericainc.com

Company:
 Alabama Power General Test Laboratory
 Address:
 744 County Rd 87 GSC #8
 City:
 Calera
 State, Zip:
 AL, 35040
 Phone:
 205-564-5197 (Tel)
 Email:
 lornikliff@southernco.com
 Project #:
 40007143
 CCR
 Site:
 Greene Ash Pond 1163

Sampler:
 Anthony Goggins
 Phone:

Due Date Requested:
 TAT Requested (days): Routine

PO #:
WO #:
Project #:
SSOWN#:

SM 4500 F.C
SM 4500 CLE
SM 4500 SO4.E

COC No:
 400-56525-24537.1
Page:
 Page 1 of 4
Job #:



Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Matrix (W=water, S=solid, O=soil, BT=issue, A=air)	Field Filtered Sample (Yes or No)			Special Instructions/Note:
						Perform MS/MSD (Yes or No)	SM 4500 F.C	SM 4500 CLE	
AY21820	9/10/18	15:02	G		Water	X	X	X	1 MW-1
AY21821	9/10/18	16:43	G		Water	X	X	X	1 MW-2
AY21822	9/11/18	08:33	G		Water	X	X	X	1 MW-30
AY21823	9/11/18	08:33	G		Water	X	X	X	1 MW-30 DUP (Sample Duplicate)
AY21824	9/11/18	09:26	G		Water	X	X	X	1 MW-29
AY21825	9/11/18	10:12	G		Water	X	X	X	1 MW-28
AY21826	9/11/18	11:11	G		Water	X	X	X	1 MW-27
AY21827	9/11/18	12:07	G		Water	X	X	X	1 MW-26
AY21828	9/11/18	12:57	G		Water	X	X	X	1 MW-24
AY21829	9/11/18	14:10	G		Water	X	X	X	1 MW-23
AY21830	9/11/18	16:00	G		Water	X	X	X	1 MW-32
AY21831	9/11/18	16:45	G		Water	X	X	X	1 MW-33
AY21832	9/11/18	17:30	G		Water	X	X	X	1 MW-31
AY21833	9/12/18	06:02	G		Water	X	X	X	1 MW-25
AY21834	9/12/18	10:10	G		Water	X	X	X	1 PZ-19
AY21835	9/12/18	11:38	G		Water	X	X	X	1 PZ-4
AY21836	9/12/18	12:20	G		Water	X	X	X	1 MW-3
AY21837	9/10/18	17:00	G		Water	X	X	X	1 FB-3 (Field Blank)

Analysis Requested

Special Instructions/Note: Total Number of containers

Preservation Codes:
 A - HCL
 B - NiOH
 C - Zn Acetate
 D - NiAc
 E - NiH2SO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - IIR
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Matrix (W=water, S=solid, O=soil, BT=issue, A=air)

Sample Type (C=Comp, G=grab)

Preservation Code:

Matrix (W=water, S=solid, O=soil, BT=issue, A=air)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

SM 4500 F.C

SM 4500 CLE

SM 4500 SO4.E

9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Relinquished by: Laura Mickliff
 Date/Time: 9/17/2018, 1328
 Company: APC

Relinquished by:
 Date/Time:
 Company:

Relinquished by:
 Date/Time:
 Company:

Relinquished by:
 Date/Time:
 Company:

Method of Shipment:

Received by: *Signature*
 Date/Time: 9-19-18 0940
 Company: TA Pen

Received by:
 Date/Time:
 Company:

Received by:
 Date/Time:
 Company:

Cooler Temperature(s) °C and Other Remarks: 0.9°C IR8

Chain of Custody Record

Client Information Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State/Zip: AL, 35040 Phone: 205-664-6197(Tel) Email: lmidkiff@southernco.com Project Name: CCR Site: Greene Ash Pond 1163		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com		Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 2 of 4 Job #:	
Sampler: Anthony Goggins Phone:		Analysis Requested			
Due Date Requested: TAT Requested (days): Routine		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc			
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Soil, Groundwater, BT/Tissue, Ash) Preservation Code:		Total Number of Containers			
AY21838	9/12/18	12:30	G	Water	1
AY21839	9/12/18	12:50	G	Water	1
AY21840	9/12/18	13:30	G	Water	1
Special Instructions/Note: FB-4 (Field Blank) EB-1 (Equipment Blank) RS-2					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 - EDTA Other:
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by: Relinquished by: Laura Midkiff		Date: Date/Time: 9/17/2018, 1328		Method of Shipment:	
Relinquished by:		Date/Time:		Received by: <i>[Signature]</i> Date/Time: 9-19-18 0940 Company: IA Pen	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record

Client Information		Lab PM: Whitmore, Cheyenne R.		Carrier Tracking Note(s):	
Alabama Power General Test Laboratory		Whitmore, Cheyenne R.		GOC No: 400-56525-24537.1	
Address: 744 County Rd 87 GSC #8		E-Mail: cheyenne.whitmore@testamericainc.com		Page: Page 3 of 4	
City: Callera		Phone: 205-664-6197 (Tel)		Job #:	
State, Zip: AL, 35040		Project #: 40007143			
PO #: AL, 35040		SSOW#:			
Email: lbmidkif@southernco.com					
Site: Greene Ash Pond 1163					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other, BT=Butane, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Special Instructions/Note:
						SM 4500 F _c	SM 4500 Cl _r	SM 4500 SO ₄ ⁻²	9315_R4228_9320_R4228_R4228R4228_GFPc	Analysis Requested	Carrier Tracking Note(s)	
AY21841	9/10/18	14:51	G	Water		X	X	X				1 MW-11
AY21842	9/10/18	15:43	G	Water		X	X	X				1 MW-21
AY21843	9/10/18	15:43	G	Water		X	X	X				1 MW-21 DUP (Sample Duplicate)
AY21844	9/10/18	16:10	G	Water		X	X	X				1 FB-1 (Field Blank)
AY21845	9/11/18	08:16	G	Water		X	X	X				1 MW-5
AY21846	9/11/18	09:09	G	Water		X	X	X				1 MW-6
AY21847	9/11/18	10:07	G	Water		X	X	X				1 MW-7
AY21848	9/11/18	11:18	G	Water		X	X	X				1 MW-8
AY21849	9/11/18	12:36	G	Water		X	X	X				1 MW-9
AY21850	9/11/18	13:39	G	Water		X	X	X				1 MW-10
AY21851	9/11/18	14:38	G	Water		X	X	X				1 MW-12
AY21852	9/11/18	14:38	G	Water		X	X	X				1 MW-12 DUP (Sample Duplicate)
AY21853	9/11/18	15:40	G	Water		X	X	X				1 MW-13
AY21854	9/11/18	16:34	G	Water		X	X	X				1 MW-15
AY21855	9/11/18	16:55	G	Water		X	X	X				1 FB-2 (Field Blank)
AY21856	9/11/18	09:47	G	Water		X	X	X				1 MW-14
AY21857	9/12/18	10:15	G	Water		X	X	X				1 River Sample 1
AY21858	9/12/18	11:14	G	Water		X	X	X				1 MW-16

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: Relinquished by: Laura Midkiff		Method of Shipment: _____ Date/Time: 9/17/2018 1328	
Relinquished by: _____		Received by: _____ Date/Time: _____	
Relinquished by: _____		Received by: _____ Date/Time: 9-19-18 0940	
Relinquished by: _____		Received by: _____ Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: _____	



Chain of Custody Record

Client Information Client Contact: Ben Rothschild Phone: Laura Midkiff Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6197 (Tel) Email: lmidkiff@southernco.com Project Name: CCR Site: Greene Ash Pond 1163		Lab PM: Whitmire, Chyenne R E-Mail: chyenne.whitmire@testamericainc.com Carrier Tracking No(s): GOC No: 400-56525-24537.1 Page: Page 4 of 4 Job #:						
Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N 9315_R4228, 9320_R4228, R4228R4228_GFP						
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=on-site, BT=bulk, A=air) Preservation Code:		Total Number of containers Special Instructions/Note:						
AY21859	9/12/18	12:04	G	Water	SM 4500 F _C	X	1	MMW-17
AY21860	9/12/18	12:04	G	Water	SM 4500 Cl _E	X	1	MMW-17 DUP (Sample Duplicate)
AY21861	9/12/18	13:10	G	Water	SM 4500 S _{O4} E	X	1	MMW-18
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Empty Kit Relinquished by: Relinquished by: Laura Midkiff		Date: 9/17/2018, 1328 Company: APC		Method of Shipment:				
Relinquished by:		Date/Time:		Date/Time:				
Relinquished by:		Date/Time:		Date/Time:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-159368-1
SDG Number: Greene Ash Pond 1163

Login Number: 159368
List Number: 1
Creator: Perez, Trina M

List Source: 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.	N/A	Not present
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	0.9°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	

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
 Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-159368-1
 SDG: Greene Ash Pond 1163

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18 *
Kansas	NELAP	7	E-10253	10-31-18
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-18 *
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-16	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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

Analytical Report



Sample Group : WMWGREAP_1179
Project/Site : Greene County Ash Pond
Demopolis, AL 36732
For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243
Attention : Dustin Brooks, Greg Dyer, & Corey Ladner
Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

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: 2018.12.10 10:16:09 -0600

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: 2018.12.13 15:37:38 -0600

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY26615

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	6.71	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	1.09	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	1.06	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	6.32	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	3.47	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	3.22	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	22.3	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.57	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	52.9	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			52.9	mg/L

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AY26615

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY26616

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	10.0	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	0.0531	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	0.0581	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	5.22	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	0.549	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.574	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	21.4	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	7.01	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	78.4	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			78.3	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AY26616

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	Limit
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26617

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	J 0.00214	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	5.57	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	U Not Detected	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26617

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY26618

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	10.4	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	4.35	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	1.30	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	1.19	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	22.0	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	7.09	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	70.9	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			70.8	mg/L

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AY26618

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY26619

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	10.6	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	4.15	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	1.26	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	1.09	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	22.3	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	7.08	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	69.4	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			69.3	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AY26619

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY26620

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	11.7	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	3.05	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	0.141	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.125	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	23.5	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.95	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	67.5	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.06	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			67.4	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AY26620

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	
			MB	Limit					Limit	Rec	Limit	Prec		
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5		98.5	70 to 130	2.79	20
AY26624	Mangnese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115		-3.97	70 to 130	0.378	20
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75		94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75		86.0	70 to 130	0.231	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23		49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0				1.71	10
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23		-30.0	70 to 130	0.0238	20
AY26624	Mangnese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115		127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05					

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY26621

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	11.2	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	2.06	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	2.25	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	8.66	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	2.17	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	2.07	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	28.3	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.30	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	71.8	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			71.8	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 LBM 12/07/18

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AY26621

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Mangnese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Mangnese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20

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 Calera, AL 35040
 (205) 664-6032 or 6171
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY26622

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	18.9	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	13.8	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		10.15	0.1015	0.5075	14.5	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	12.1	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	1.98	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	1.79	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	37.4	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.54	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	278	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.09	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			278	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AY26622

Sample	Analysis	Units	MB	MB				LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94	0.085 to 0.115	-3.97	70 to 130	0.378	20	
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10

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Expiration: June 30, 2019

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 LBM 12/07/18

Alabama Power General Test Laboratory
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 Calera, AL 35040
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY26623

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	28.0	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	34.0	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		20.3	0.203	1.015	34.6	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	12.2	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	2.54	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	2.31	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	54.1	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.61	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	273	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.10	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			273	mg/L

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Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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 744 County Road 87, GSC#8
 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AY26623

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	Limit
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY26624

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	13.7	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	11.0	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		10.15	0.1015	0.5075	11.3	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	6.23	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	2.94	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	2.63	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	39.0	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.49	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	322	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.09	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			322	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total Manganese, Dissolved Manganese, Total Iron, and Dissolved Iron are out of spec. Spike amounts are less than 30% of the sample amount. LBM 12/07/18

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 744 County Road 87, GSC#8
 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AY26624

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	Limit
AY26624	Manganese, Dissolved	mg/L	0.000106	0.005	0.10	2.93	2.94		0.085 to 0.115	-3.97	70 to 130	0.378	20
AY26624	Potassium, Total	mg/L	0.000824	0.0946	10.0	16.1	16.5	10.2	8.5 to 11.5	98.5	70 to 130	2.79	20
AY26624	Iron, Total	mg/L	-0.000842	0.022	0.2	11.4	11.4	0.200	0.17 to 0.23	49.4	70 to 130	0.0744	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26624	Iron, Dissolved	mg/L	0.000157	0.022	0.2	10.9	10.9	0.198	0.17 to 0.23	-30.0	70 to 130	0.0238	20
AY26624	Manganese, Total	mg/L	0.00000604	0.0022	0.10	2.76	2.83	0.0908	0.085 to 0.115	127	70 to 130	2.65	20
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26624	Magnesium, Total	mg/L	-0.00306	0.22	5.00	18.4	18.5	4.86	4.25 to 5.75	94.0	70 to 130	0.542	20
AY26624	Sodium, Total	mg/L	0.00126	0.22	5.00	43.3	43.4	4.89	4.25 to 5.75	86.0	70 to 130	0.231	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Total Manganese, Dissolved Manganese, Total Iron, and Dissolved Iron are out of spec. Spike amounts are less than 30% of the sample amount. LBM 12/07/18

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY26625

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	41.0	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		101.5	1.015	5.075	135	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		101.5	1.015	5.075	137	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	8.03	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		92.365	0.092365	0.461825	14.9	mg/L
* Manganese, Total	ABB	11/19/2018	EPA 200.8		92.365	0.092365	0.461825	15.0	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	49.4	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.10	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	105	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			105	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AY26625

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26625	pH for Alkalinity	SU						6.98	6.95 to 7.05				
AY26634	Manganese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Manganese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY26626

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	11.1	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	38.6	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		20.3	0.203	1.015	43.1	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	4.83	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	2.59	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	2.29	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	24.1	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.04	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	48.8	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			48.8	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AY26626

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Mangnese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Mangnese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY26627

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	7.27	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	0.852	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	0.819	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.652	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	0.226	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.187	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	24.9	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	5.39	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	26.9	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			26.9	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AY26627

Sample	Analysis	Units	MB	MB				LCS	LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD		Limit	Rec	Limit	Prec		
AY26634	Mangenes, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20	
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20	
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20	
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20	
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20	
AY26634	Mangenes, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20	
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10	
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20	
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05					

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY26628

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	16.4	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	28.3	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		10.15	0.1015	0.5075	28.7	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	6.26	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	1.93	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	1.78	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	21.0	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.59	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	217	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			217	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AY26628

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Manganese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Manganese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26629

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	J 0.00247	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	5.51	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	U Not Detected	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26629

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Mangenes, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Mangenes, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				

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 Calera, AL 35040
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY26630

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	22.4	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	19.1	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		10.15	0.1015	0.5075	21.7	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	11.4	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	2.45	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	2.18	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	31.8	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.48	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	224	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.06	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			224	mg/L

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AY26630

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Mangnese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Mangnese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY26631

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	12.2	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	19.4	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		10.15	0.1015	0.5075	20.6	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	4.19	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	3.44	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	3.05	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	30.3	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.55	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	246	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.08	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			246	mg/L

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Expiration: June 30, 2019

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AY26631

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Manganese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Manganese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY26632

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	28.5	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	10.5	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		10.15	0.1015	0.5075	11.3	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	7.33	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		92.365	0.092365	0.461825	8.20	mg/L
* Manganese, Total	ABB	11/19/2018	EPA 200.8		10.15	0.01015	0.05075	8.00	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	42.6	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.55	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	381	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.13	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			381	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AY26632

Sample	Analysis	Units	MB	MB				LCS	LCS		Rec		Prec	Limit
				Limit	Spike	MS	MSD		Limit	Rec	Limit	Prec		
AY26634	Manganese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20	
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20	
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20	
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20	
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20	
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05					
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20	
AY26634	Manganese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20	
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10	

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 Calera, AL 35040
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY26633

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	18.0	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	J 0.0343	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	J 0.0281	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 1.04	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	2.62	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	2.52	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	112	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.44	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	411	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.11	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			411	mg/L

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Expiration: June 30, 2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AY26633

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26634	Manganese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Manganese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10

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 Calera, AL 35040
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY26634

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	0.710	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.694	mg/L
* Manganese, Dissolved	ABB	11/26/2018	EPA 200.8		5.075	0.001	0.005	J 0.00430	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	3.83	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.37	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	31.3	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			31.3	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AY26634

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AY26634	Magnesium, Total	mg/L	0.000520	0.22	5.00	5.63	5.65	4.87	4.25 to 5.75	98.4	70 to 130	0.306	20
AY26634	Potassium, Total	mg/L	0.000824	0.0946	10.0	11.0	10.9	10.2	8.5 to 11.5	103	70 to 130	1.59	20
AY26634	Iron, Total	mg/L	-0.000313	0.022	0.2	0.200	0.198	0.202	0.17 to 0.23	99.9	70 to 130	1.07	20
AY26634	Sodium, Total	mg/L	0.00120	0.22	5.00	8.84	8.72	4.87	4.25 to 5.75	100	70 to 130	1.33	20
AY26625	Alkalinity, Total as CaCO3	mg/L					103	50.3	45.0 to 55.0			1.71	10
AY26625	pH for Alkalinity	SU					6.98		6.95 to 7.05				
AY26634	Manganese, Dissolved	mg/L	0.000104	0.005	0.10	0.0990	0.0942		0.085 to 0.115	94.7	70 to 130	4.88	20
AY26634	Iron, Dissolved	mg/L	0.000195	0.022	0.2	0.214	0.205	0.198	0.17 to 0.23	107	70 to 130	4.30	20
AY26634	Manganese, Total	mg/L	0.00000604	0.0022	0.10	0.0895	0.0874	0.0908	0.085 to 0.115	89.5	70 to 130	2.44	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY26635

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	1.05	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	0.184	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	0.225	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 1.08	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.00859	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.00698	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	5.48	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	5.31	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	U Not Detected	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AY26635

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Mangnese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26644	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY26636

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	3.13	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	4.09	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.0171	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.0174	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	6.24	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	4.77	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	U Not Detected	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AY26636

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Mangnese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26644	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY26637

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	J 0.364	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.920	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.00991	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.00766	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.26	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	6.13	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	27.1	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			27.1	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The pH of the sample was rechecked for confirmation in the lab. LBM 12/10/18

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AY26637

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	Limit
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Mangnese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26644	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY26638

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	J 0.265	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.760	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.0332	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.0298	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	1.60	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	4.99	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	0.44	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0.44	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AY26638

Sample	Analysis	Units	MB				LCS			Rec		Prec		
			MB	Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit	
AY26639	pH for Alkalinity	SU					6.99	6.95 to 7.05						
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23		98.6	70 to 130	0.297	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75		99.6	70 to 130	1.15	20
AY26639	Alkalinity, Total as CaCO3	mg/L					49.3	45.0 to 55.0				0	10	
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75		98.6	70 to 130	0.412	20
AY26644	Manganese, Total	mg/L	0.0000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115		85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5		104	70 to 130	1.74	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23		104	70 to 130	2.43	20
AY26644	Manganese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115		91.3	70 to 130	6.58	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY26639

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.17	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 1.90	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.0732	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.0672	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	1.22	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/16/2018	SM 4500H+ B		1		4.00	4.80	SU
Alkalinity, Total as CaCO3	EMG	11/16/2018	SM 2320 B		1		0.10	U Not Detected	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/16/2018	SM 4500CO2 D		1			0	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AY26639

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26639	pH for Alkalinity	SU						6.99	6.95 to 7.05				
AY26639	Alkalinity, Total as CaCO3	mg/L					NOT Detected	49.3	45.0 to 55.0			0	10
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Mangnese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26644	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY26640

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	0.526	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.806	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.0259	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.0212	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.70	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	4.98	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	1.02	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			1.02	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AY26640

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26644	Manganese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Manganese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY26641

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	0.571	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.488	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.160	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.142	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	3.10	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	5.69	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	8.92	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			8.92	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AY26641

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Mangnese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY26642

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	5.12	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		20.3	0.203	1.015	21.4	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	21.3	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 1.69	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.769	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.730	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	22.7	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	6.42	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	280	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.07	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			280	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AY26642

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Mangenes, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26644	Mangenes, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY26643

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	9.01	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 1.76	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.0347	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.0287	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.54	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	5.51	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	13.8	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			13.8	mg/L

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AY26643

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AY26644	Manganese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Manganese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY26644

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.08	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	J 0.0122	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.861	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.37	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	6.52	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	73.8	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			73.8	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AY26644

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AY26644	Iron, Total	mg/L	-0.000512	0.022	0.2	0.209	0.209	0.196	0.17 to 0.23	98.6	70 to 130	0.297	20
AY26644	Magnesium, Total	mg/L	-0.00336	0.22	5.00	7.06	6.98	4.81	4.25 to 5.75	99.6	70 to 130	1.15	20
AY26644	Sodium, Total	mg/L	0.000885	0.22	5.00	7.30	7.33	4.81	4.25 to 5.75	98.6	70 to 130	0.412	20
AY26644	Manganese, Total	mg/L	0.00000866	0.0022	0.10	0.0859	0.0861	0.0916	0.085 to 0.115	85.9	70 to 130	0.151	20
AY26644	Potassium, Total	mg/L	0.00206	0.0946	10.0	11.3	11.1	10.5	8.5 to 11.5	104	70 to 130	1.74	20
AY26644	Iron, Dissolved	mg/L	0.0000225	0.022	0.2	0.208	0.203	0.195	0.17 to 0.23	104	70 to 130	2.43	20
AY26644	Manganese, Dissolved	mg/L	-0.0000387	0.005	0.10	0.0913	0.0976		0.085 to 0.115	91.3	70 to 130	6.58	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY26645

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	21.7	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	0.0879	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	0.0827	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.884	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.713	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.697	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	67.2	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	6.63	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	393	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.16	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			393	mg/L

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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AY26645

Sample	Analysis	Units	MB	MB				LCS		Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	
AY26650	Mangenes, Dissolved	mg/L	-0.0000294	0.005	0.10	0.0888	0.0896		0.085 to 0.115	88.8	70 to 130	0.871	20
AY26650	Mangenes, Total	mg/L	0.00000866	0.0022	0.10	0.0877	0.0881	0.0916	0.085 to 0.115	87.7	70 to 130	0.387	20
AY26650	Magnesium, Total	mg/L	-0.00355	0.22	5.00	4.95	4.85	4.82	4.25 to 5.75	98.9	70 to 130	1.96	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AY26650	Iron, Dissolved	mg/L	0.000626	0.022	0.2	0.207	0.200	0.194	0.17 to 0.23	103	70 to 130	3.28	20
AY26650	Iron, Total	mg/L	-0.000687	0.022	0.2	0.197	0.195	0.199	0.17 to 0.23	98.7	70 to 130	1.40	20
AY26650	Potassium, Total	mg/L	0.00206	0.0946	10.0	10.5	10.5	10.5	8.5 to 11.5	105	70 to 130	0.412	20
AY26650	Sodium, Total	mg/L	-0.000287	0.22	5.00	4.95	4.85	4.89	4.25 to 5.75	99.0	70 to 130	2.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY26646

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	19.9	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	0.206	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	0.208	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.949	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	1.04	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.992	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		10.15	1.015	5.075	179	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	6.54	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	407	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.13	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			407	mg/L

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AY26646

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	
			Limit	MB					Limit	Rec	Limit	Prec		
AY26650	Manganese, Total	mg/L	0.0000866	0.0022	0.10	0.0877	0.0881	0.0916	0.085 to 0.115		87.7	70 to 130	0.387	20
AY26650	Magnesium, Total	mg/L	-0.00355	0.22	5.00	4.95	4.85	4.82	4.25 to 5.75		98.9	70 to 130	1.96	20
AY26650	Manganese, Dissolved	mg/L	-0.0000294	0.005	0.10	0.0888	0.0896		0.085 to 0.115		88.8	70 to 130	0.871	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0				7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05					
AY26650	Iron, Dissolved	mg/L	0.000626	0.022	0.2	0.207	0.200	0.194	0.17 to 0.23		103	70 to 130	3.28	20
AY26650	Iron, Total	mg/L	-0.000687	0.022	0.2	0.197	0.195	0.199	0.17 to 0.23		98.7	70 to 130	1.40	20
AY26650	Potassium, Total	mg/L	0.00206	0.0946	10.0	10.5	10.5	10.5	8.5 to 11.5		105	70 to 130	0.412	20
AY26650	Sodium, Total	mg/L	-0.000287	0.22	5.00	4.95	4.85	4.89	4.25 to 5.75		99.0	70 to 130	2.00	20

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Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AY26647

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	0.707	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 0.726	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	J 0.00129	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	3.87	mg/L
General Characteristics									
pH for Alkalinity	EMG	11/14/2018	SM 4500H+ B		1		4.00	6.32	SU
Alkalinity, Total as CaCO3	EMG	11/14/2018	SM 2320 B		1		0.10	29.7	mg/L
Carbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	11/14/2018	SM 4500CO2 D		1			29.7	mg/L

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Expiration: June 30, 2019

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Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 05-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AY26647

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit					Rec	Limit		
AY26625	Alkalinity, Total as CaCO3	mg/L				103	50.3	45.0 to 55.0			1.71	10
AY26650	Mangnese, Dissolved	mg/L	-0.0000294	0.005	0.10	0.0888	0.0896	0.085 to 0.115	88.8	70 to 130	0.871	20
AY26650	Magnesium, Total	mg/L	-0.00355	0.22	5.00	4.95	4.85	4.25 to 5.75	98.9	70 to 130	1.96	20
AY26625	pH for Alkalinity	SU					6.98	6.95 to 7.05				
AY26650	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0877	0.0881	0.085 to 0.115	87.7	70 to 130	0.387	20
AY26650	Iron, Dissolved	mg/L	0.000626	0.022	0.2	0.207	0.200	0.17 to 0.23	103	70 to 130	3.28	20
AY26650	Iron, Total	mg/L	-0.000687	0.022	0.2	0.197	0.195	0.17 to 0.23	98.7	70 to 130	1.40	20
AY26650	Potassium, Total	mg/L	0.00206	0.0946	10.0	10.5	10.5	8.5 to 11.5	105	70 to 130	0.412	20
AY26650	Sodium, Total	mg/L	-0.000287	0.22	5.00	4.95	4.85	4.25 to 5.75	99.0	70 to 130	2.00	20

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Expiration: June 30, 2019

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 LBM 12/07/18

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY26648

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	J 0.345	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	J 1.01	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	0.00813	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	0.00789	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	2.14	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	5.30	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	1.16	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			1.16	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 LBM 12/07/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAP
 Sample Date: 06-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AY26648

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AY26650	Manganese, Total	mg/L	0.0000866	0.0022	0.10	0.0877	0.0881	0.0916	0.085 to 0.115	87.7	70 to 130	0.387	20
AY26650	Manganese, Dissolved	mg/L	-0.0000294	0.005	0.10	0.0888	0.0896		0.085 to 0.115	88.8	70 to 130	0.871	20
AY26650	Magnesium, Total	mg/L	-0.00355	0.22	5.00	4.95	4.85	4.82	4.25 to 5.75	98.9	70 to 130	1.96	20
AY26650	Potassium, Total	mg/L	0.00206	0.0946	10.0	10.5	10.5	10.5	8.5 to 11.5	105	70 to 130	0.412	20
AY26650	Sodium, Total	mg/L	-0.000287	0.22	5.00	4.95	4.85	4.89	4.25 to 5.75	99.0	70 to 130	2.00	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AY26650	Iron, Dissolved	mg/L	0.000626	0.022	0.2	0.207	0.200	0.194	0.17 to 0.23	103	70 to 130	3.28	20
AY26650	Iron, Total	mg/L	-0.000687	0.022	0.2	0.197	0.195	0.199	0.17 to 0.23	98.7	70 to 130	1.40	20

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Expiration: June 30, 2019

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26649

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	5.46	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	0.24	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0.24	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 LBM 12/07/18

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6032 or 6171
 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPFB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AY26649

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AY26650	Manganese, Dissolved	mg/L	-0.0000294	0.005	0.10	0.0888	0.0896		0.085 to 0.115	88.8	70 to 130	0.871	20	
AY26650	Manganese, Total	mg/L	0.00000866	0.0022	0.10	0.0877	0.0881	0.0916	0.085 to 0.115	87.7	70 to 130	0.387	20	
AY26650	Magnesium, Total	mg/L	-0.00355	0.22	5.00	4.95	4.85	4.82	4.25 to 5.75	98.9	70 to 130	1.96	20	
AY26650	Potassium, Total	mg/L	0.00206	0.0946	10.0	10.5	10.5	10.5	8.5 to 11.5	105	70 to 130	0.412	20	
AY26650	Sodium, Total	mg/L	-0.000287	0.22	5.00	4.95	4.85	4.89	4.25 to 5.75	99.0	70 to 130	2.00	20	
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10	
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05					
AY26650	Iron, Dissolved	mg/L	0.000626	0.022	0.2	0.207	0.200	0.194	0.17 to 0.23	103	70 to 130	3.28	20	
AY26650	Iron, Total	mg/L	-0.000687	0.022	0.2	0.197	0.195	0.199	0.17 to 0.23	98.7	70 to 130	1.40	20	

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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 LBM 12/07/18

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPEB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY26650

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Magnesium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Iron, Dissolved	RDA	11/20/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	RDA	11/19/2018	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Potassium, Total	ABB	11/16/2018	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
* Manganese, Dissolved	ABB	11/27/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	ABB	11/16/2018	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Sodium, Total	RDA	11/19/2018	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
General Characteristics									
pH for Alkalinity	HRG	11/19/2018	SM 4500H+ B		1		4.00	5.41	SU
Alkalinity, Total as CaCO3	HRG	11/19/2018	SM 2320 B		1		0.10	U Not Detected	mg/L
Carbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	11/19/2018	SM 4500CO2 D		1			0	mg/L

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Laboratory certification ID: E571114

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Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 Corey Ladner

Customer Account: WMWGREAPEB
 Sample Date: 07-Nov-18
 Customer ID:
 Delivery Date: 08-Nov-18

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AY26650

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AY26650	Magnesium, Total	mg/L	-0.00355	0.22	5.00	4.95	4.85	4.82	4.25 to 5.75	98.9	70 to 130	1.96	20
AY26650	Mangnese, Dissolved	mg/L	-0.0000294	0.005	0.10	0.0888	0.0896		0.085 to 0.115	88.8	70 to 130	0.871	20
AY26650	Mangnese, Total	mg/L	0.00000866	0.0022	0.10	0.0877	0.0881	0.0916	0.085 to 0.115	87.7	70 to 130	0.387	20
AY26650	Potassium, Total	mg/L	0.00206	0.0946	10.0	10.5	10.5	10.5	8.5 to 11.5	105	70 to 130	0.412	20
AY26650	Sodium, Total	mg/L	-0.000287	0.22	5.00	4.95	4.85	4.89	4.25 to 5.75	99.0	70 to 130	2.00	20
AY26648	Alkalinity, Total as CaCO3	mg/L					1.08	50.1	45.0 to 55.0			7.14	10
AY26648	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AY26650	Iron, Dissolved	mg/L	0.000626	0.022	0.2	0.207	0.200	0.194	0.17 to 0.23	103	70 to 130	3.28	20
AY26650	Iron, Total	mg/L	-0.000687	0.022	0.2	0.197	0.195	0.199	0.17 to 0.23	98.7	70 to 130	1.40	20

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.

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

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 12/07/18

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.
E	Estimated reported value exceeded calibration range.
J	Reported value is an estimate because concentration is less than reporting limit.
N	Organic constituents tentatively identified. Confirmation is needed.
R	Matrix spike recovery is out of range.
U	Compound was analyzed, but not detected.
P	Precision is out of range.
C	Analyte was verified by re-analysis.
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.
L	Check standard is outside of the required specification limit.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
F	Water Field Group (WFG) qualifier; see comments for more information



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 11/08/2018 08:31

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer, Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Ben Rothschild	Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Alkalinity	250 mL	5	N/A	N/A	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments pH strips used: 6803-35848-20-9, 6959-37694-30-15, 6959-37693-30-14 LBM 11/08/18. 2mL HNO3 (#6734-35443-2-2) added to AY26623 (dissolved metals bottle) by LBM on 11/16/18 at 15:44. pH strip ID#6959-37693-30-14. LBM 11/16/18

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	11/5/18	12:35	3	Groundwater		AY26615
MW-21	11/05/2018	13:35	3	Groundwater		AY26616
FB-1	11/05/2018	13:55	3	Field Blank		AY26617
MW-12	11/05/2018	14:40	3	Groundwater		AY26618
MW-12 DUP	11/05/2018	14:40	3	Sample Duplicate		AY26619
MW-13	11/05/2018	15:44	3	Groundwater		AY26620
MW-15	11/06/2018	08:11	3	Groundwater		AY26621
MW-16	11/06/2018	09:15	3	Groundwater		AY26622
MW-17	11/06/2018	10:14	3	Groundwater		AY26623
MW-18	11/06/2018	11:21	3	Groundwater		AY26624
MW-1	11/06/2018	12:34	3	Groundwater		AY26625
MW-2	11/06/2018	13:35	3	Groundwater		AY26626
MW-25	11/06/2018	14:40	3	Groundwater		AY26627
MW-5	11/06/2018	15:44	3	Groundwater		AY26628
FB-2	11/06/2018	16:10	3	Field Blank		AY26629
MW-14	11/07/2018	08:16	3	Groundwater		AY26630
MW-10	11/07/2018	09:20	3	Groundwater		AY26631
MW-9	11/07/2018	10:27	3	Groundwater		AY26632
MW-8	11/07/2018	11:23	3	Groundwater		AY26633

Relinquished By	Received By	Date/Time
		11/08/2018 08:16

SmarTroll ID	6496-34170-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
Sample Event	1179	1.0 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		see comment section



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, Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Alkalinity	250 mL	5	N/A	N/A	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Corrected dates on FB-3 and EB-1 to 11/07/2018. Also corrected time on MW-24 to 08:06. LBM 11/08/2018

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-32	11/5/18	15:55	3	Groundwater		AY26634
MW-31	11/06/2018	08:45	3	Groundwater		AY26635
MW-33	11/06/2018	09:37	3	Groundwater		AY26636
MW-30	11/06/2018	11:18	3	Groundwater		AY26637
MW-29	11/06/2018	12:16	3	Groundwater		AY26638
MW-28	11/06/2018	13:06	3	Groundwater		AY26639
MW-27	11/06/2018	13:50	3	Groundwater		AY26640
MW-26	11/06/2018	14:40	3	Groundwater		AY26641
MW-3	11/06/2018	15:45	3	Groundwater		AY26642
MW-24	11/07/2018	08:06	3	Groundwater		AY26643
MW-23	11/07/2018	09:17	3	Groundwater		AY26644
MW-6	11/07/2018	10:05	3	Groundwater		AY26645
MW-7	11/07/2018	10:46	3	Groundwater		AY26646
MW-32DUP	11/05/2018	15:55	3	Sample Duplicate		AY26647
MW-30DUP	11/06/2018	11:18	3	Sample Duplicate		AY26648
FB-3	11/07/2018	08:18	3	Field Blank		AY26649
EB-1	11/07/2018	12:45	3	Equipment Blank		AY26650

Relinquished By	Received By	Date/Time
		11/08/2018 09:12

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	
Sample Event	1179	
Cooler Temp	0.5 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	6959-37693-30-14	

Appendix B

1st Semi-Annual

Interwell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 2/26/2019, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-11	0.304	n/a	6/5/2018	0.311	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.304	n/a	6/5/2018	0.489	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.304	n/a	6/5/2018	1.56	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.304	n/a	6/5/2018	0.605	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.304	n/a	6/5/2018	1.73	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.304	n/a	6/5/2018	0.954	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.304	n/a	6/5/2018	1.31	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.304	n/a	6/6/2018	1.01	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.304	n/a	6/5/2018	0.543	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.304	n/a	6/5/2018	1.36	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.304	n/a	6/5/2018	1.76	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.304	n/a	6/5/2018	1.36	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	6/4/2018	157	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	6/4/2018	68.3	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	6/4/2018	98.8	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	6/5/2018	64.8	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	6/5/2018	121	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	6/5/2018	186	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	6/5/2018	58	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	6/5/2018	95.1	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	6/5/2018	65.5	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	6/6/2018	167	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	6/5/2018	45.1	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	6/5/2018	66.8	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	6/5/2018	77.4	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	6/5/2018	66.3	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-3	24.7	n/a	6/4/2018	27	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-6	24.7	n/a	6/5/2018	32	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-7	24.7	n/a	6/5/2018	49	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-8	24.7	n/a	6/5/2018	38	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-9	24.7	n/a	6/5/2018	25	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-18	24.7	n/a	6/5/2018	25	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-17	0.31	n/a	6/5/2018	0.41	Yes	88	48.86	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-1	262.7	n/a	6/4/2018	850	Yes	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	262.7	n/a	6/5/2018	390	Yes	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	262.7	n/a	6/6/2018	450	Yes	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-1	340.6	n/a	6/4/2018	1370	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-2	340.6	n/a	6/4/2018	528	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-3	340.6	n/a	6/4/2018	369	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-5	340.6	n/a	6/5/2018	347	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-6	340.6	n/a	6/5/2018	582	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-7	340.6	n/a	6/5/2018	1060	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-8	340.6	n/a	6/5/2018	474	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-9	340.6	n/a	6/5/2018	448	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-10	340.6	n/a	6/5/2018	346	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-14	340.6	n/a	6/6/2018	932	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-16	340.6	n/a	6/5/2018	408	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-17	340.6	n/a	6/5/2018	644	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-18	340.6	n/a	6/5/2018	352	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 2/26/2019, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-11	0.304	n/a	6/5/2018	0.311	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.304	n/a	6/6/2018	0.26	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.304	n/a	6/5/2018	0.1ND	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.304	n/a	6/5/2018	0.1ND	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.304	n/a	6/5/2018	0.1ND	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-1	0.304	n/a	6/4/2018	0.242	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.304	n/a	6/4/2018	0.134	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.304	n/a	6/4/2018	0.0296	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.304	n/a	6/5/2018	0.489	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.304	n/a	6/5/2018	1.56	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.304	n/a	6/5/2018	0.605	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.304	n/a	6/5/2018	1.73	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.304	n/a	6/5/2018	0.954	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.304	n/a	6/5/2018	1.31	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.304	n/a	6/6/2018	0.244	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.304	n/a	6/6/2018	1.01	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.304	n/a	6/5/2018	0.543	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.304	n/a	6/5/2018	1.36	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.304	n/a	6/5/2018	1.76	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.304	n/a	6/5/2018	1.36	Yes	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.304	n/a	6/6/2018	0.102	No	80	77.5	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.7	n/a	6/5/2018	25.7	No	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-12	42.7	n/a	6/6/2018	30.1	No	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-31	42.7	n/a	6/5/2018	9.12	No	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-32	42.7	n/a	6/5/2018	11.4	No	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-33	42.7	n/a	6/5/2018	2.97	No	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	6/4/2018	157	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	6/4/2018	68.3	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	6/4/2018	98.8	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	6/5/2018	64.8	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	6/5/2018	121	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	6/5/2018	186	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	6/5/2018	58	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	6/5/2018	95.1	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	6/5/2018	65.5	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-13	42.7	n/a	6/6/2018	23.7	No	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	6/6/2018	167	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	6/5/2018	45.1	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	6/5/2018	66.8	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	6/5/2018	77.4	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	6/5/2018	66.3	Yes	80	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-25	42.7	n/a	6/6/2018	9.05	No	80	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-11	24.7	n/a	6/5/2018	16	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-12	24.7	n/a	6/6/2018	11	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-31	24.7	n/a	6/5/2018	5.2	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-32	24.7	n/a	6/5/2018	3.8	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-33	24.7	n/a	6/5/2018	4.2	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-1	24.7	n/a	6/4/2018	22	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-2	24.7	n/a	6/4/2018	16	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-3	24.7	n/a	6/4/2018	27	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-5	24.7	n/a	6/5/2018	15	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-6	24.7	n/a	6/5/2018	32	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-7	24.7	n/a	6/5/2018	49	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-8	24.7	n/a	6/5/2018	38	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-9	24.7	n/a	6/5/2018	25	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-10	24.7	n/a	6/5/2018	18	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-13	24.7	n/a	6/6/2018	6.1	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-14	24.7	n/a	6/6/2018	14	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-15	24.7	n/a	6/5/2018	13	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-16	24.7	n/a	6/5/2018	15	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-17	24.7	n/a	6/5/2018	15	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-18	24.7	n/a	6/5/2018	25	Yes	80	7.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-25	24.7	n/a	6/6/2018	20	No	80	7.5	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-11	0.31	n/a	6/5/2018	0.16	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-12	0.31	n/a	6/6/2018	0.19	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-31	0.31	n/a	6/5/2018	0.1ND	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-32	0.31	n/a	6/5/2018	0.04	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-33	0.31	n/a	6/5/2018	0.1	No	88	48.86	n/a	0.000...	NP Inter (normality) ...

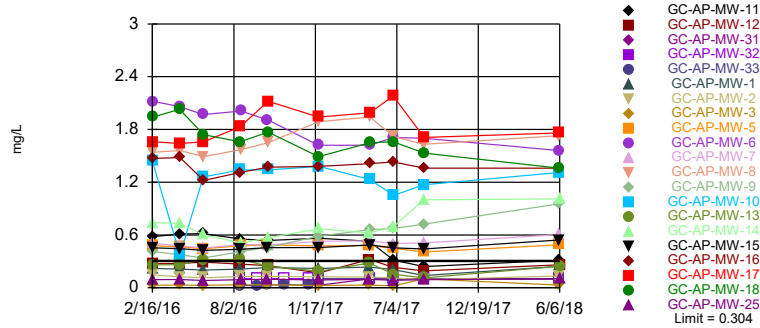
Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 2/26/2019, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-1	0.31	n/a	6/4/2018	0.07	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-2	0.31	n/a	6/4/2018	0.09	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-3	0.31	n/a	6/4/2018	0.1	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-5	0.31	n/a	6/5/2018	0.24	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-6	0.31	n/a	6/5/2018	0.23	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-7	0.31	n/a	6/5/2018	0.08	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-8	0.31	n/a	6/5/2018	0.11	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-9	0.31	n/a	6/5/2018	0.19	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-10	0.31	n/a	6/5/2018	0.24	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-13	0.31	n/a	6/6/2018	0.13	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-14	0.31	n/a	6/6/2018	0.15	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-15	0.31	n/a	6/5/2018	0.13	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-16	0.31	n/a	6/5/2018	0.28	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-17	0.31	n/a	6/5/2018	0.41	Yes	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-18	0.31	n/a	6/5/2018	0.17	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-25	0.31	n/a	6/6/2018	0.1ND	No	88	48.86	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-11	262.7	n/a	6/5/2018	79	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	262.7	n/a	6/6/2018	62	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	262.7	n/a	6/5/2018	3.7	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	262.7	n/a	6/5/2018	3.1	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	262.7	n/a	6/5/2018	17	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	262.7	n/a	6/4/2018	850	Yes	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	262.7	n/a	6/4/2018	260	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	262.7	n/a	6/4/2018	1.4	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	262.7	n/a	6/5/2018	36	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	262.7	n/a	6/5/2018	98	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	262.7	n/a	6/5/2018	390	Yes	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	262.7	n/a	6/5/2018	25	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	262.7	n/a	6/5/2018	22	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	262.7	n/a	6/5/2018	39	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	262.7	n/a	6/6/2018	48	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	262.7	n/a	6/6/2018	450	Yes	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	262.7	n/a	6/5/2018	160	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	262.7	n/a	6/5/2018	87	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	262.7	n/a	6/5/2018	230	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	262.7	n/a	6/5/2018	13	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	262.7	n/a	6/6/2018	47	No	80	21.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-11	340.6	n/a	6/5/2018	200	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-12	340.6	n/a	6/6/2018	199	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-31	340.6	n/a	6/5/2018	50	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-32	340.6	n/a	6/5/2018	52.7	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-33	340.6	n/a	6/5/2018	71.3	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-1	340.6	n/a	6/4/2018	1370	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-2	340.6	n/a	6/4/2018	528	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-3	340.6	n/a	6/4/2018	369	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-5	340.6	n/a	6/5/2018	347	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-6	340.6	n/a	6/5/2018	582	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-7	340.6	n/a	6/5/2018	1060	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-8	340.6	n/a	6/5/2018	474	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-9	340.6	n/a	6/5/2018	448	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-10	340.6	n/a	6/5/2018	346	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-13	340.6	n/a	6/6/2018	138	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-14	340.6	n/a	6/6/2018	932	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-15	340.6	n/a	6/5/2018	318	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-16	340.6	n/a	6/5/2018	408	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-17	340.6	n/a	6/5/2018	644	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-18	340.6	n/a	6/5/2018	352	Yes	80	11.25	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-25	340.6	n/a	6/6/2018	153	No	80	11.25	ln(x)	0.000...	Param Inter 1 of 2

Exceeds Limit: GC-AP-MW-11, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-M

Prediction Limit
Interwell Non-parametric

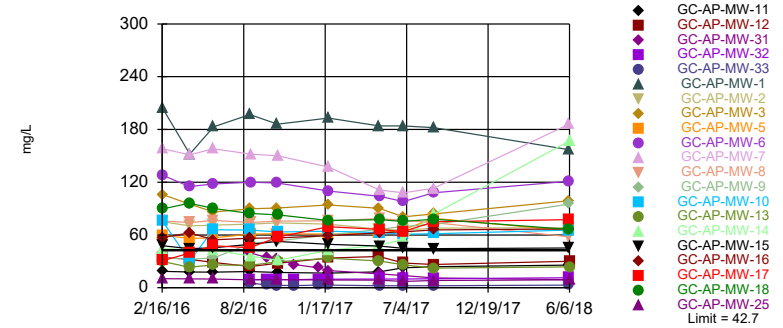


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 77.5% NDs. Annual per-constituent alpha = 0.009386. Individual comparison alpha = 0.0002946 (1 of 2). Comparing 21 points to limit.

Constituent: Boron Analysis Run 2/26/2019 10:05 AM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW

Prediction Limit
Interwell Non-parametric

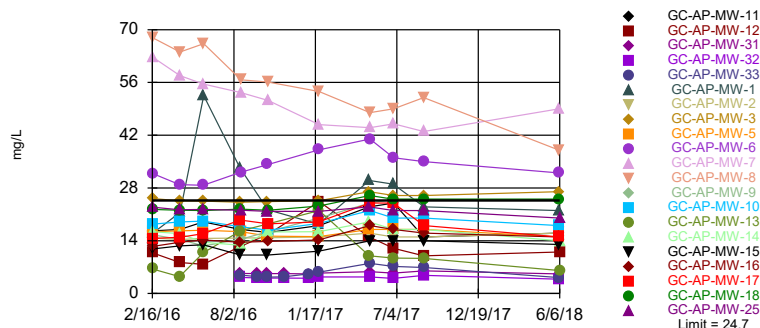


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. Annual per-constituent alpha = 0.009386. Individual comparison alpha = 0.0002946 (1 of 2). Comparing 21 points to limit.

Constituent: Calcium Analysis Run 2/26/2019 10:05 AM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-3, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW

Prediction Limit
Interwell Non-parametric

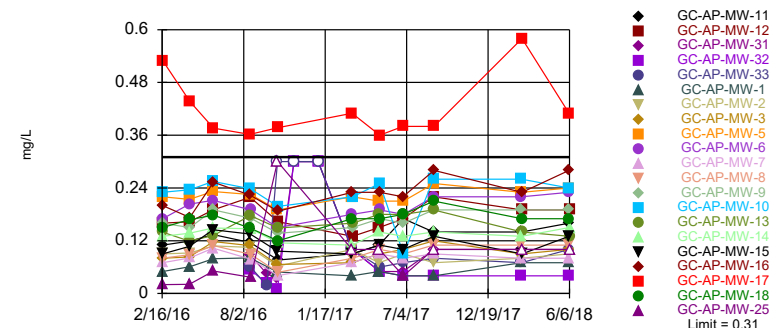


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. 7.5% NDs. Annual per-constituent alpha = 0.009386. Individual comparison alpha = 0.0002946 (1 of 2). Comparing 21 points to limit.

Constituent: Chloride Analysis Run 2/26/2019 10:05 AM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-17

Prediction Limit
Interwell Non-parametric

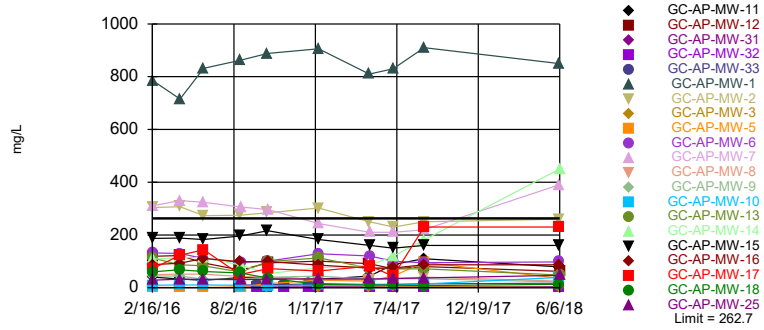


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 48.86% NDs. Annual per-constituent alpha = 0.007866. Individual comparison alpha = 0.0002468 (1 of 2). Comparing 21 points to limit.

Constituent: Fluoride Analysis Run 2/26/2019 10:05 AM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-7, GC-AP-MW-14

Prediction Limit
 Interwell Parametric



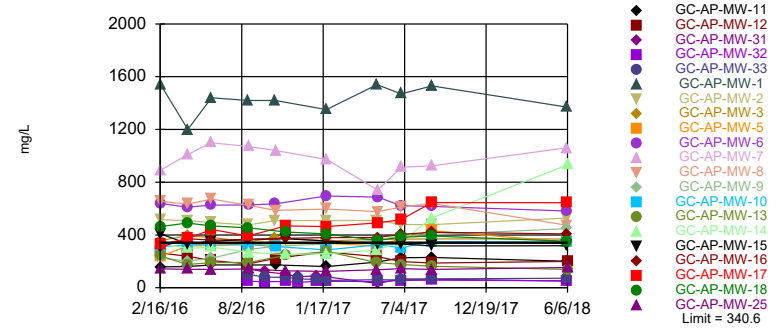
- ◆ GC-AP-MW-11
- ◆ GC-AP-MW-12
- ◆ GC-AP-MW-31
- ◆ GC-AP-MW-32
- ◆ GC-AP-MW-33
- ▲ GC-AP-MW-1
- ▲ GC-AP-MW-2
- ▲ GC-AP-MW-3
- ▲ GC-AP-MW-5
- ▲ GC-AP-MW-6
- ▲ GC-AP-MW-7
- ▲ GC-AP-MW-8
- ▲ GC-AP-MW-9
- ▲ GC-AP-MW-10
- ▲ GC-AP-MW-13
- ▲ GC-AP-MW-14
- ▲ GC-AP-MW-15
- ▲ GC-AP-MW-16
- ▲ GC-AP-MW-17
- ▲ GC-AP-MW-18
- ▲ GC-AP-MW-25
- Limit = 262.7

Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=1.665, Std. Dev.=1.865, n=80, 21.25% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9617, critical = 0.957. Kappa = 2.094 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 21 points to limit.

Constituent: Sulfate Analysis Run 2/26/2019 10:05 AM View: PLs - Interwell
 Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW

Prediction Limit
 Interwell Parametric



- ◆ GC-AP-MW-11
- ◆ GC-AP-MW-12
- ◆ GC-AP-MW-31
- ◆ GC-AP-MW-32
- ◆ GC-AP-MW-33
- ▲ 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-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
- Limit = 340.6

Background Data Summary (based on natural log transformation): Mean=4.013, Std. Dev.=0.8683, n=80, 11.25% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9694, critical = 0.957. Kappa = 2.094 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 21 points to limit.

Constituent: TDS Analysis Run 2/26/2019 10:05 AM View: PLs - Interwell
 Greene County Client: Southern Company Data: Greene County AP

Intrawell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 2/26/2019, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
pH (SU)	GC-AP-MW-11	6.176	5.913	6/5/2018	6.27	Yes	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-7	6.517	6.365	6/5/2018	6.36	Yes	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-18	6.393	6.177	6/5/2018	6.16	Yes	10	0	No	0.000...	Param Intra 1 of 3

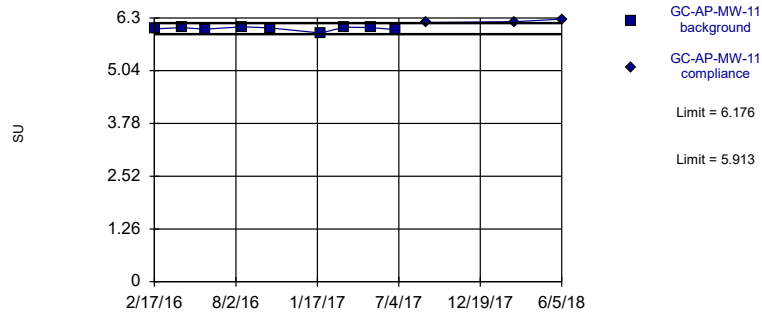
Intrawell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 2/26/2019, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
pH (SU)	GC-AP-MW-11	6.176	5.913	6/5/2018	6.27	Yes	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-12	7.099	6.65	6/6/2018	6.99	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-21	7.326	6.523	6/6/2018	6.94	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-23	6.858	6.212	6/5/2018	6.43	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-24	5.625	5.245	6/5/2018	5.31	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-26	6.669	4.327	6/5/2018	5.24	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-27	5.725	4.439	6/5/2018	5	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-28	6.15	4.81	6/5/2018	4.87	No	11	0	n/a	0.005613	NP Intra (normality) ...
pH (SU)	GC-AP-MW-29	7.629	4.336	6/5/2018	4.89	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-30	5.671	5.004	6/5/2018	5.12	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-31	7.42	5.786	6/5/2018	5.93	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-32	6.128	5.879	6/5/2018	6.05	No	12	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-33	7.202	3.845	6/5/2018	4.62	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-1	6.12	5.714	6/4/2018	5.89	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-2	6.259	5.944	6/4/2018	6.07	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-3	6.472	6.237	6/4/2018	6.4	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-5	6.792	6.468	6/5/2018	6.63	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-6	6.615	6.316	6/5/2018	6.49	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-7	6.517	6.365	6/5/2018	6.36	Yes	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-8	6.401	6.13	6/5/2018	6.3	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-9	6.614	6.246	6/5/2018	6.47	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-10	6.842	6.082	6/5/2018	6.52	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-13	7.075	5.979	6/6/2018	6.57	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-14	6.559	6.167	6/6/2018	6.25	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-15	6.275	5.973	6/5/2018	6.05	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-16	6.453	6.143	6/5/2018	6.29	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-17	6.639	6.143	6/5/2018	6.21	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-18	6.393	6.177	6/5/2018	6.16	Yes	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-25	5.487	5.141	6/6/2018	5.21	No	10	0	No	0.000...	Param Intra 1 of 3

Exceeds Limits

Prediction Limit Intrawell Parametric

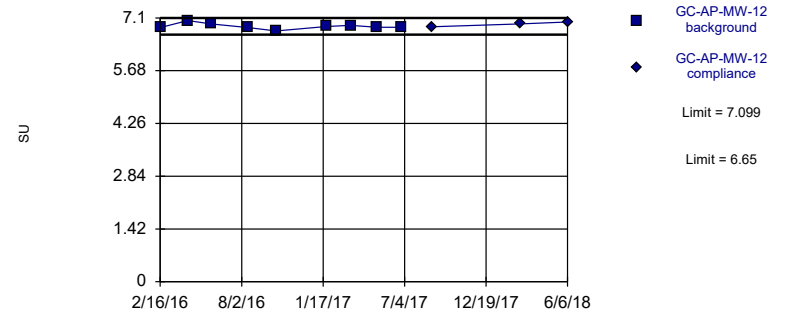


Background Data Summary: Mean=6.044, Std. Dev.=0.04558, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8452, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

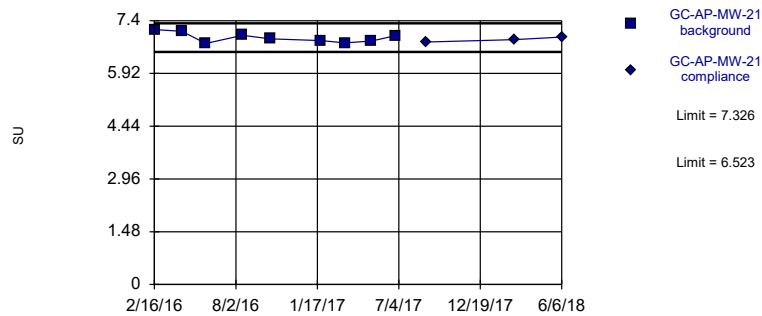


Background Data Summary: Mean=6.874, Std. Dev.=0.07764, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

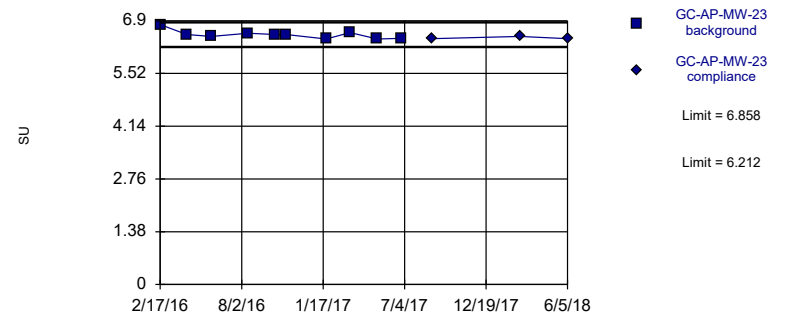


Background Data Summary: Mean=6.924, Std. Dev.=0.1388, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

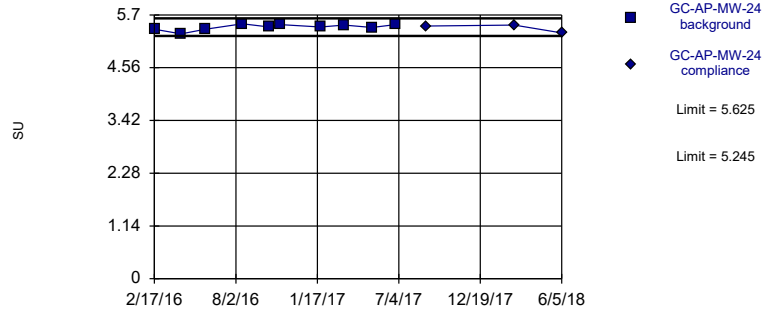


Background Data Summary: Mean=6.535, Std. Dev.=0.1116, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8465, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

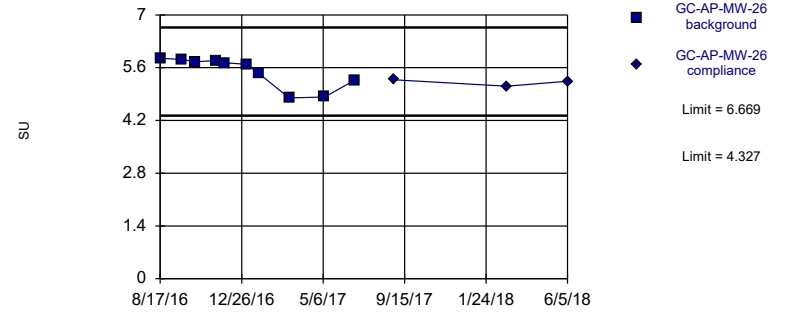


Background Data Summary: Mean=5.435, Std. Dev.=0.0657, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8972, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

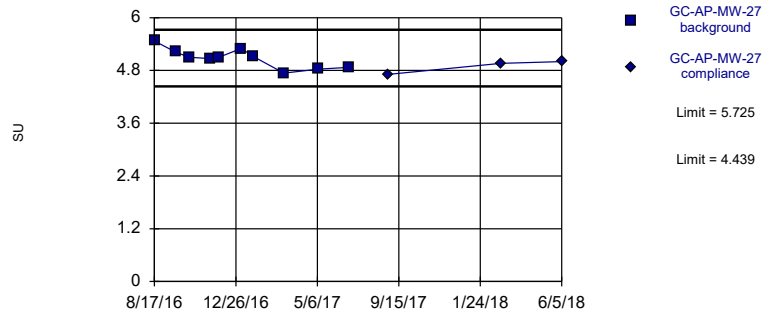


Background Data Summary: Mean=5.498, Std. Dev.=0.4046, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7954, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

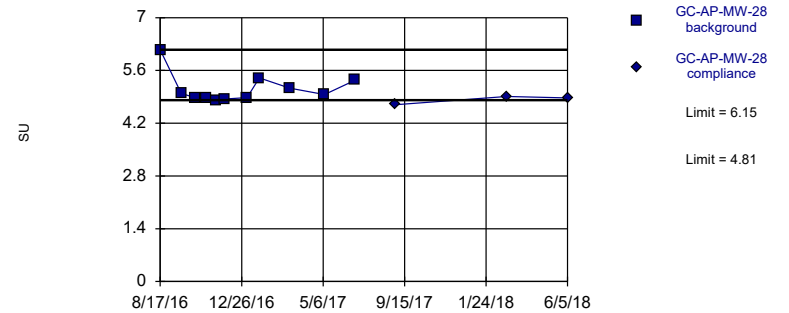


Background Data Summary: Mean=5.082, Std. Dev.=0.2223, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9637, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Non-parametric

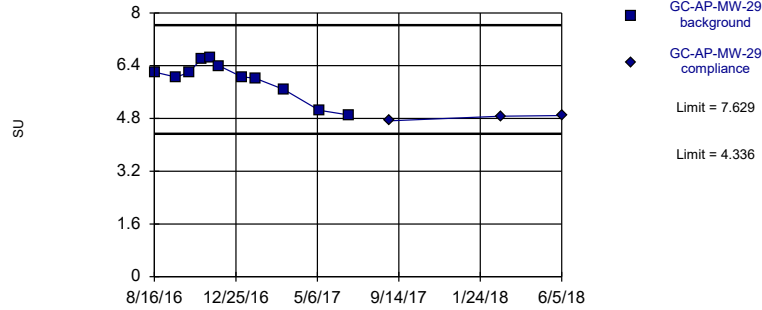


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 11 background values. Well-constituent pair annual alpha = 0.01121. Individual comparison alpha = 0.005613 (1 of 3).

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

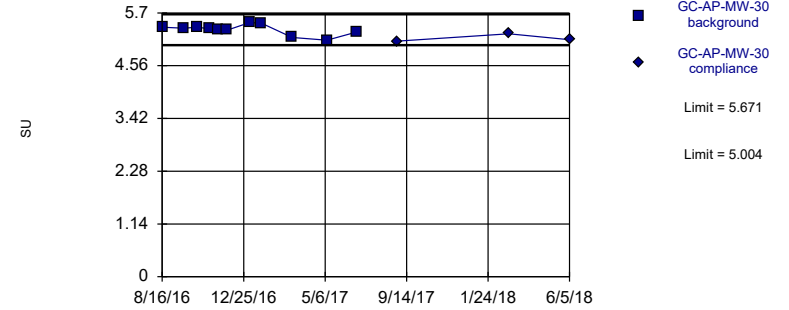


Background Data Summary: Mean=5.983, Std. Dev.=0.5689, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8823, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:08 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

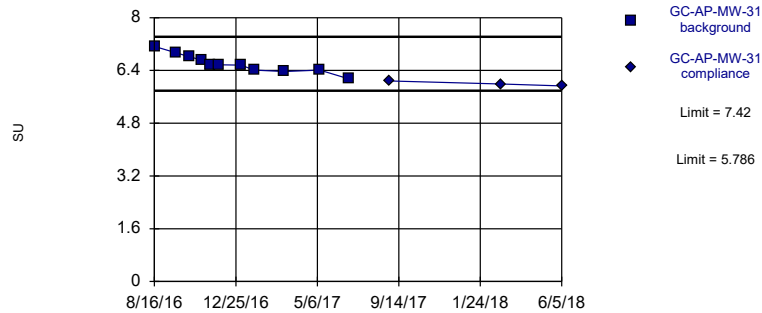


Background Data Summary: Mean=5.337, Std. Dev.=0.1152, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

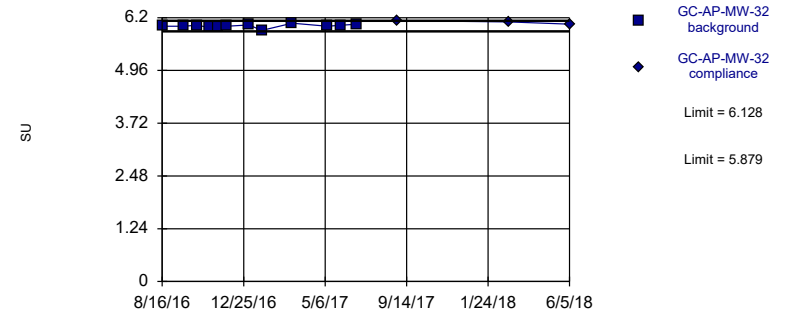


Background Data Summary: Mean=6.603, Std. Dev.=0.2823, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9709, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

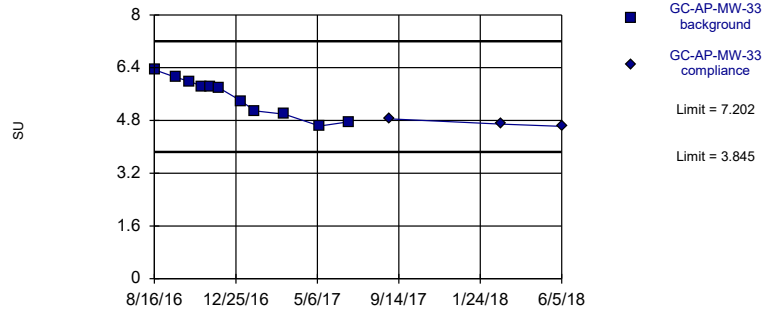


Background Data Summary: Mean=6.003, Std. Dev.=0.04292, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9184, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

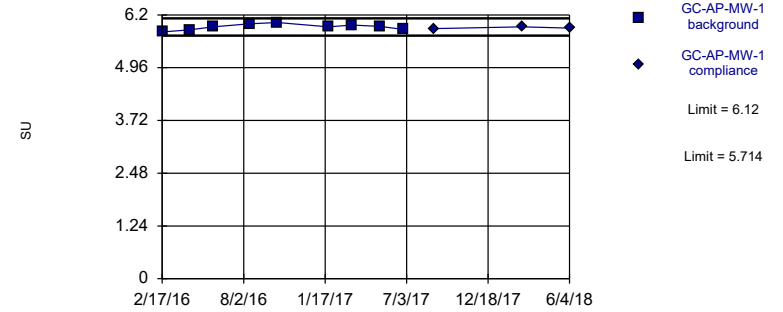


Background Data Summary: Mean=5.524, Std. Dev.=0.5801, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.93, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

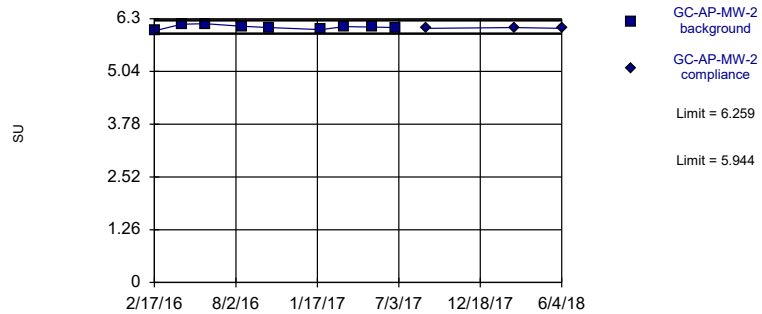


Background Data Summary: Mean=5.917, Std. Dev.=0.07018, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

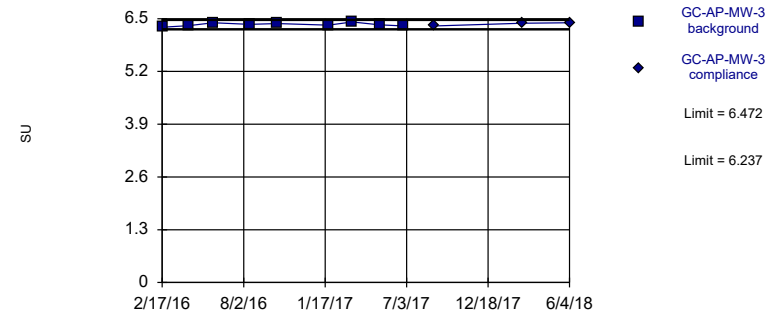


Background Data Summary: Mean=6.101, Std. Dev.=0.05442, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.951, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

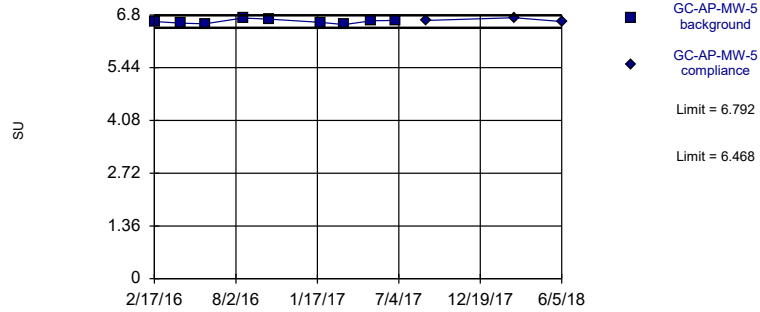


Background Data Summary: Mean=6.354, Std. Dev.=0.04065, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9876, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

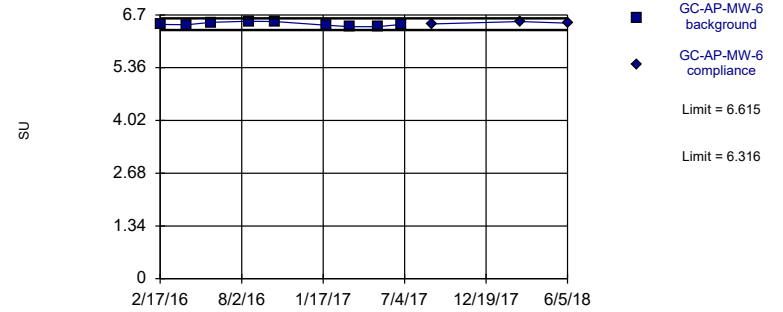


Background Data Summary: Mean=6.63, Std. Dev.=0.0559, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9815, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

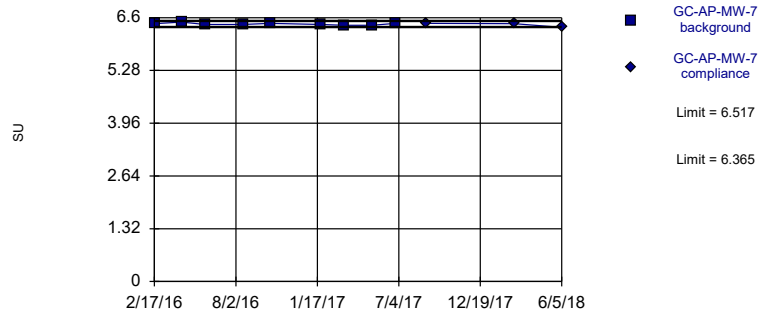


Background Data Summary: Mean=6.466, Std. Dev.=0.05151, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9154, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limits

Prediction Limit Intrawell Parametric

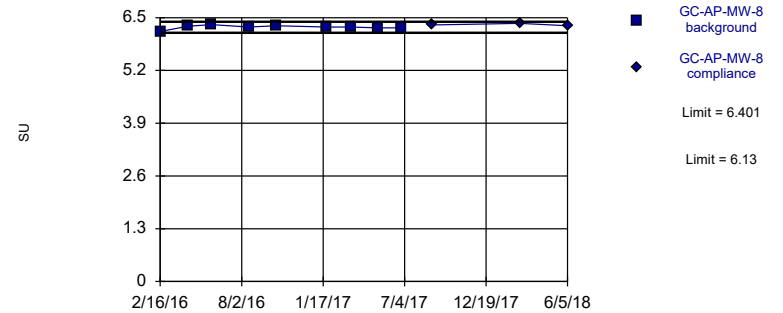


Background Data Summary: Mean=6.441, Std. Dev.=0.02619, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9222, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

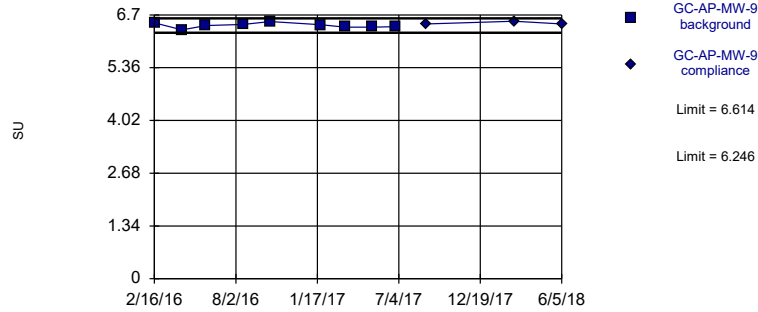


Background Data Summary: Mean=6.266, Std. Dev.=0.04693, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8756, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

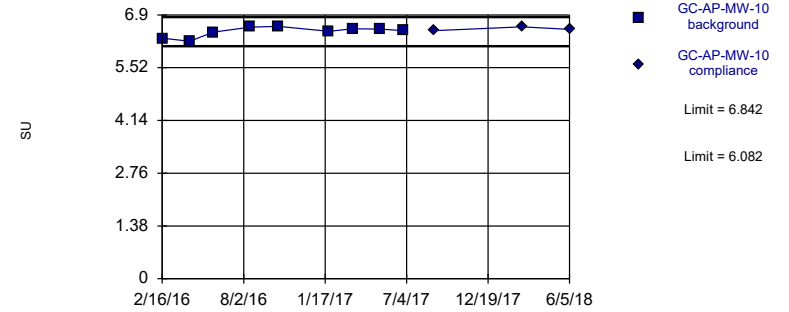


Background Data Summary: Mean=6.43, Std. Dev.=0.06364, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9768, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

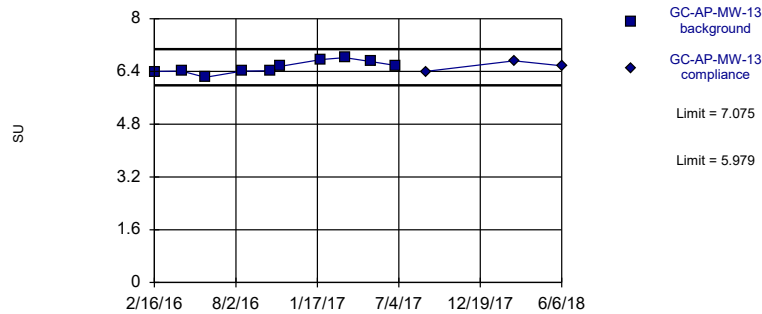


Background Data Summary: Mean=6.462, Std. Dev.=0.1312, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.875, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

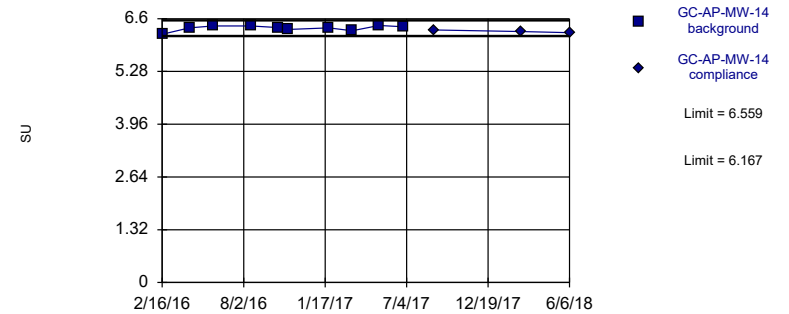


Background Data Summary: Mean=6.527, Std. Dev.=0.1893, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

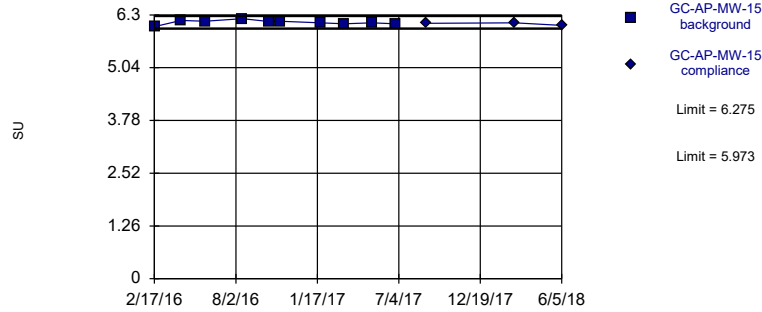


Background Data Summary: Mean=6.363, Std. Dev.=0.06767, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8676, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

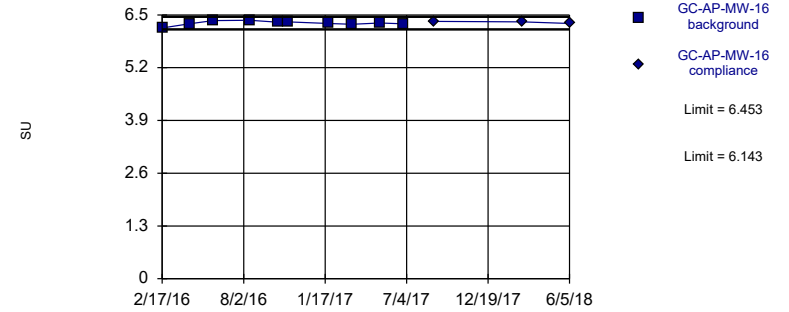


Background Data Summary: Mean=6.124, Std. Dev.=0.05232, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9664, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

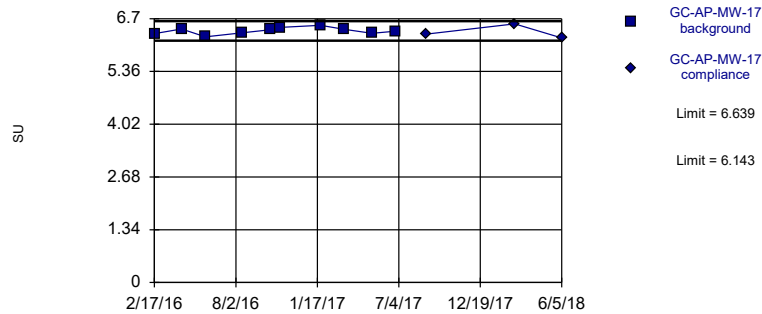


Background Data Summary: Mean=6.298, Std. Dev.=0.05371, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9214, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

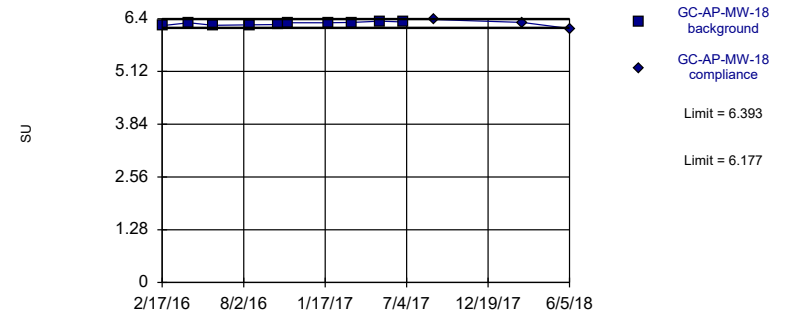


Background Data Summary: Mean=6.391, Std. Dev.=0.08582, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9828, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:09 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limits

Prediction Limit Intrawell Parametric

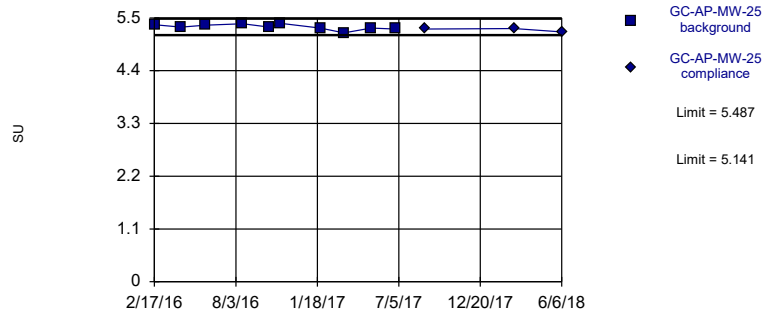


Background Data Summary: Mean=6.285, Std. Dev.=0.03719, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.923, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:10 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=5.314, Std. Dev.=0.05967, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9375, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 2/26/2019 10:10 AM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Trend Test Summary Table - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 9/17/2018, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-11 (Bg)	-0.1394	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.2607	-34	-30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2708	38	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (Bg)	10.21	37	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (Bg)	-0.3682	-35	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (Bg)	-1.298	-35	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-31 (Bg)	-24.76	-45	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-32 (Bg)	1.055	35	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	4.627	34	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	26.31	42	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	21.98	37	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-10.4	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (Bg)	2.19	39	30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	-10.76	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-11.94	-37	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.249	34	30	Yes	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (Bg)	36.91	42	30	Yes	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-31 (Bg)	1.629	40	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11 (Bg)	30.19	31	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (Bg)	56.56	39	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-31 (Bg)	-60.3	-37	-30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	114.7	41	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	33.18	39	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	136.2	39	30	Yes	10	0	n/a	n/a	0.01	NP

Trend Test Summary Table - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 9/17/2018, 2:29 PM

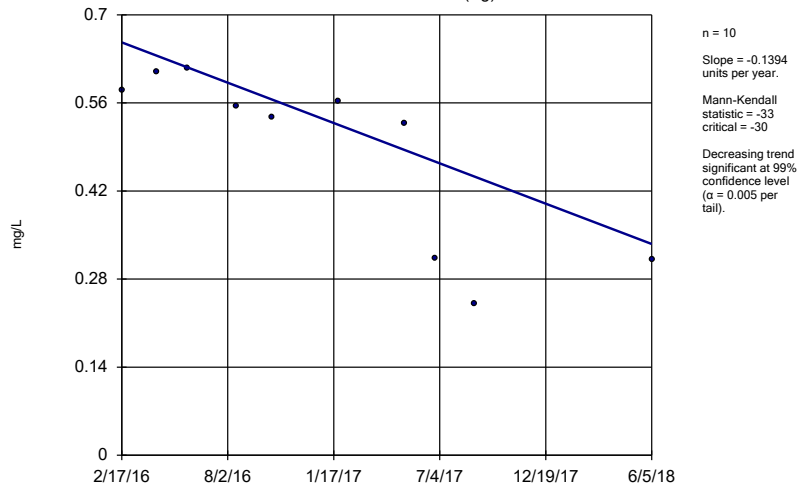
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-11 (Bg)	-0.1394	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12 (Bg)	-0.03078	-15	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21 (Bg)	-0.01407	-15	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (Bg)	0	10	30	No	10	70	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (Bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (Bg)	0	-1	-30	No	10	90	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (Bg)	0	5	30	No	10	80	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (Bg)	0	-1	-30	No	10	90	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (Bg)	0	3	30	No	10	90	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (Bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-31 (Bg)	0	-1	-30	No	10	90	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-32 (Bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-33 (Bg)	0.05475	30	30	No	10	50	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.2607	-34	-30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.1193	25	30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2708	38	30	Yes	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	-0.05151	-8	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.1176	13	30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	-0.01134	-4	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.149	18	30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.2523	-30	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11 (Bg)	3.308	15	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12 (Bg)	-1.592	-7	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21 (Bg)	-2.235	-9	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (Bg)	-6.57	-21	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (Bg)	10.21	37	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (Bg)	1.622	5	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (Bg)	-0.3682	-35	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (Bg)	0.03802	1	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (Bg)	-1.298	-35	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (Bg)	-0.103	-7	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-31 (Bg)	-24.76	-45	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-32 (Bg)	1.055	35	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-33 (Bg)	-0.761	-21	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-11.74	-16	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	-2.988	-18	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-5.028	-11	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	4.627	34	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	-11.62	-15	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	-27.57	-18	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	-0.09682	-3	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	26.31	42	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	-3.501	-15	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	22.13	19	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	-0.7204	-9	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	6.038	30	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	21.98	37	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-10.4	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11 (Bg)	0	0	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12 (Bg)	1.299	5	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21 (Bg)	1.356	8	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (Bg)	0.02005	1	30	No	10	10	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (Bg)	2.19	39	30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (Bg)	-0.0632	-1	-30	No	10	10	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (Bg)	0.0869	6	30	No	10	10	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (Bg)	-0.1955	-5	-30	No	10	10	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (Bg)	-0.2274	-15	-30	No	10	10	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (Bg)	-0.3382	-18	-30	No	10	10	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31 (Bg)	0.1947	7	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-32 (Bg)	-0.1251	-6	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-33 (Bg)	2.514	11	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	1.07	18	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	3.085	17	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	-10.76	-33	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-11.94	-37	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.249	34	30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	1.76	25	30	No	10	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11 (Bg)	0.01959	21	34	No	11	0	n/a	n/a	0.01	NP

Trend Test Summary Table - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 9/17/2018, 2:29 PM

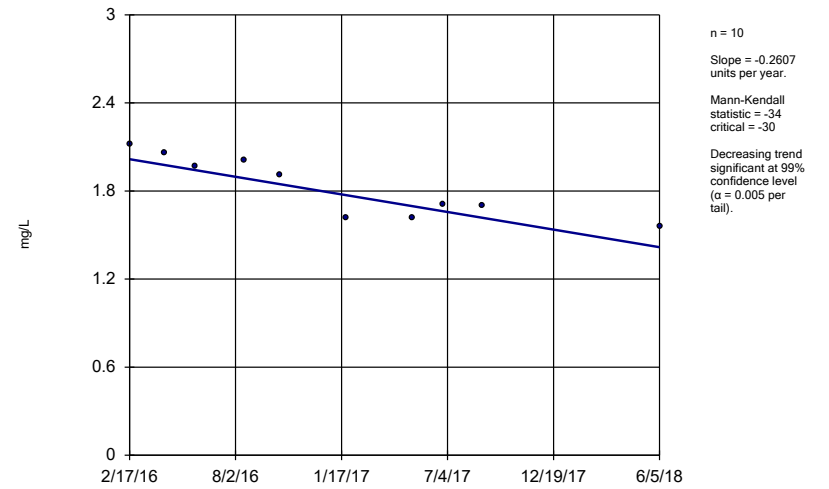
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-12 (Bg)	0.01257	15	34	No	11	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21 (Bg)	0.004789	4	34	No	11	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (Bg)	0.001596	7	34	No	11	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (Bg)	0.01014	16	34	No	11	45.45	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (Bg)	-0.03281	-8	-34	No	11	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (Bg)	0	17	34	No	11	81.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (Bg)	0	17	34	No	11	81.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (Bg)	0	17	34	No	11	81.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (Bg)	0	10	34	No	11	90.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-31 (Bg)	0.006495	17	34	No	11	54.55	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-32 (Bg)	0	-8	-34	No	11	27.27	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-33 (Bg)	0	6	34	No	11	36.36	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.002744	3	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11 (Bg)	22.47	21	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12 (Bg)	-24.74	-27	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21 (Bg)	-19.1	-21	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (Bg)	-2.793	-22	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (Bg)	36.91	42	30	Yes	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (Bg)	3.212	3	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (Bg)	1.522	22	30	No	10	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (Bg)	-0.1814	-6	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (Bg)	0	4	30	No	10	60	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (Bg)	0	7	30	No	10	80	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-31 (Bg)	1.629	40	30	Yes	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-32 (Bg)	1.034	28	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-33 (Bg)	4.02	29	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	62.57	19	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	-30.8	-22	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	-72.36	-18	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	40.09	14	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-18.41	-21	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-17	29.97	8	30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11 (Bg)	30.19	31	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12 (Bg)	-28.21	-15	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21 (Bg)	-10.91	-15	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (Bg)	-28.18	-25	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (Bg)	56.56	39	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (Bg)	-8.795	-3	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (Bg)	0.4101	5	30	No	10	30	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (Bg)	-5.233	-8	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (Bg)	-19.26	-30	-30	No	10	20	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (Bg)	0.9158	7	30	No	10	40	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-31 (Bg)	-60.3	-37	-30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-32 (Bg)	6.952	18	30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-33 (Bg)	-18.51	-20	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	0	1	30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	0	-1	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	-11.62	-9	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	-48.33	-5	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-63.48	-21	-30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	114.7	41	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	81.94	13	30	No	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	33.18	39	30	Yes	10	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	136.2	39	30	Yes	10	0	n/a	n/a	0.01	NP

Sen's Slope Estimator GC-AP-MW-11 (Bg)



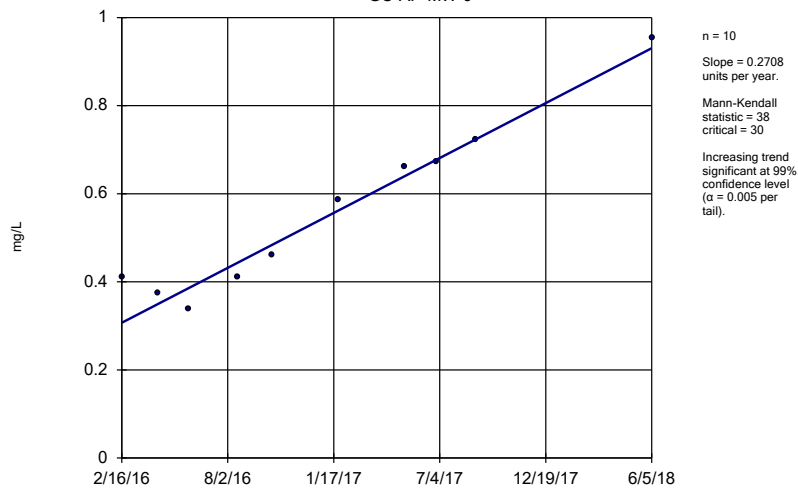
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-6



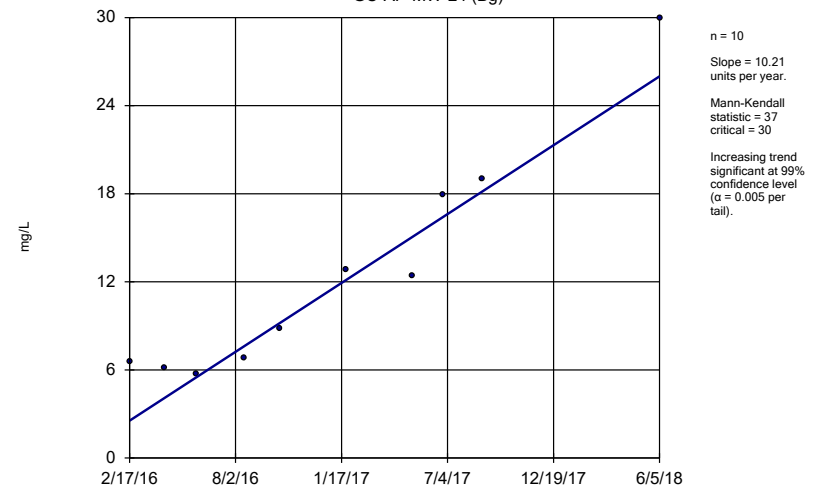
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-9



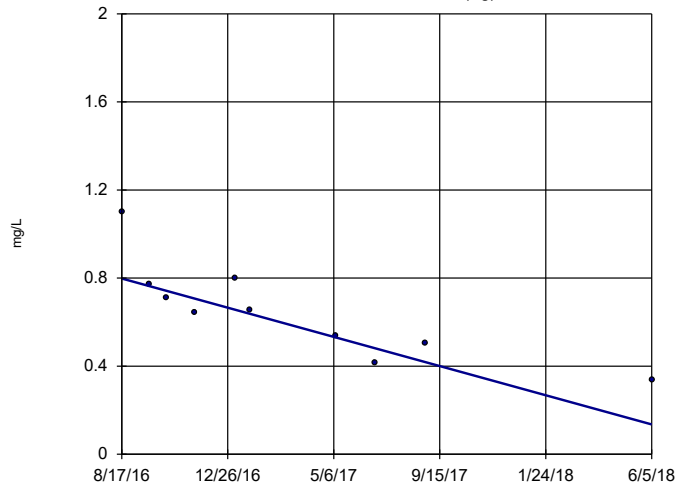
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (Bg)



Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

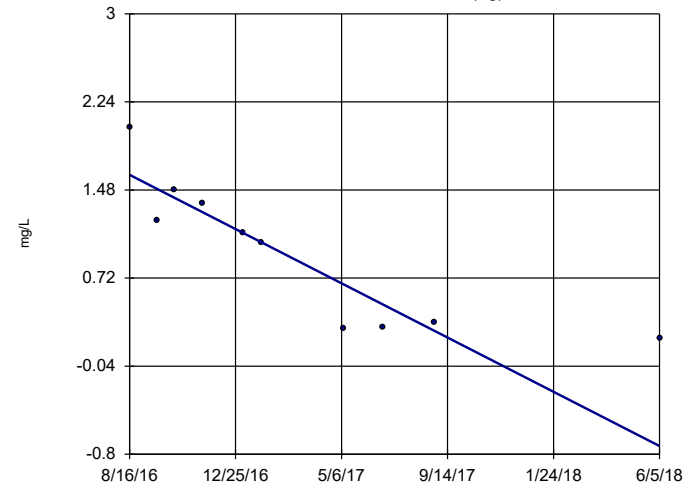
Sen's Slope Estimator GC-AP-MW-27 (Bg)



n = 10
 Slope = -0.3682
 units per year.
 Mann-Kendall
 statistic = -35
 critical = -30
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

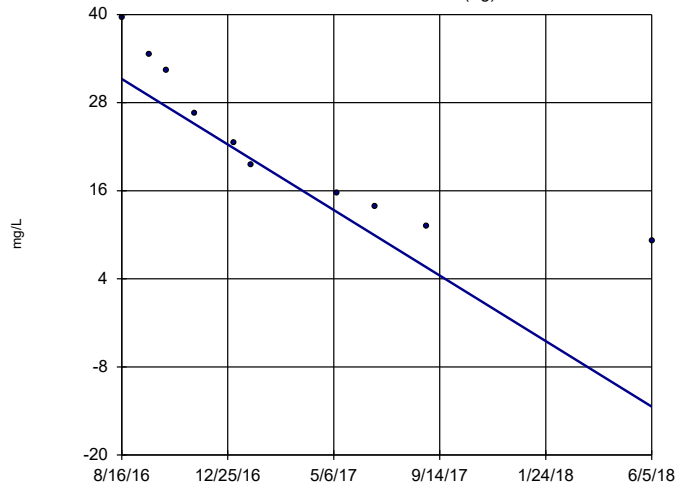
Sen's Slope Estimator GC-AP-MW-29 (Bg)



n = 10
 Slope = -1.298
 units per year.
 Mann-Kendall
 statistic = -35
 critical = -30
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

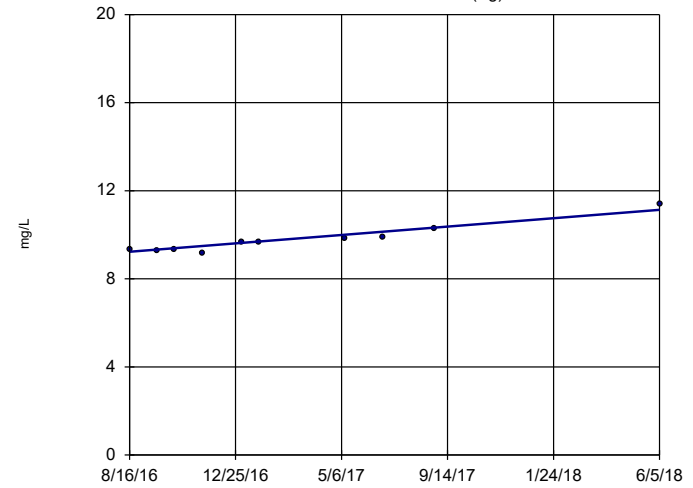
Sen's Slope Estimator GC-AP-MW-31 (Bg)



n = 10
 Slope = -24.76
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -30
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-32 (Bg)

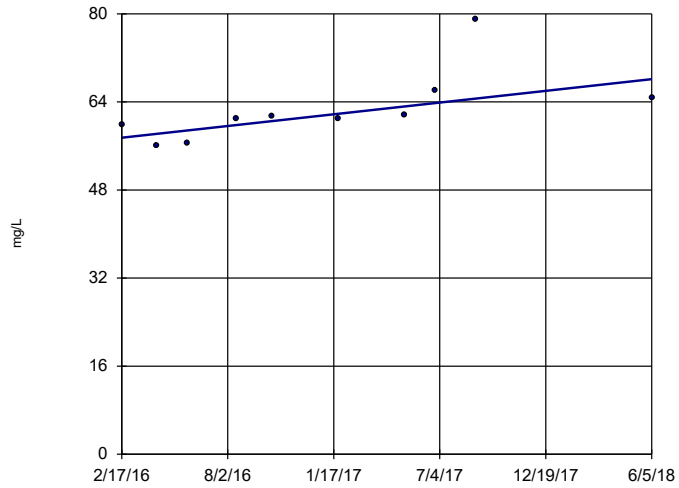


n = 10
 Slope = 1.055
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-5

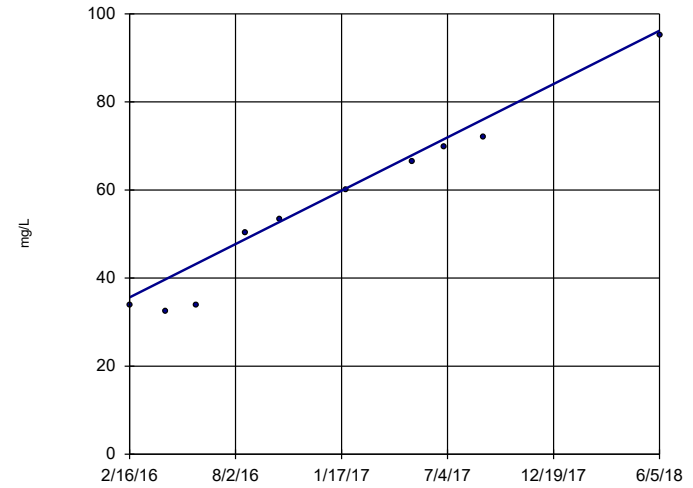


n = 10
 Slope = 4.627
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9

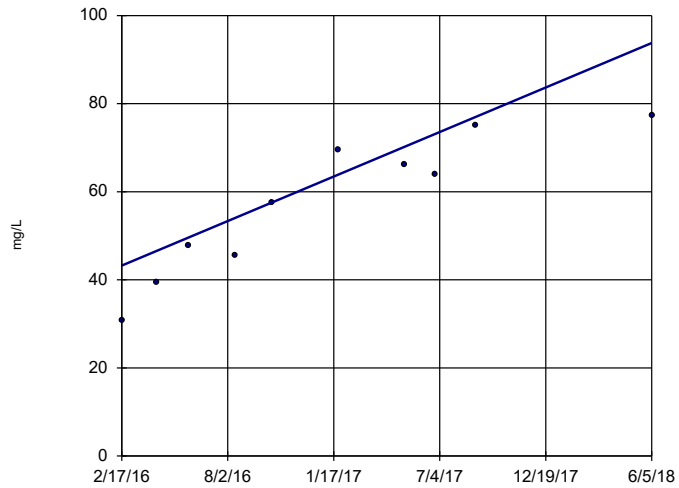


n = 10
 Slope = 26.31
 units per year.
 Mann-Kendall
 statistic = 42
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

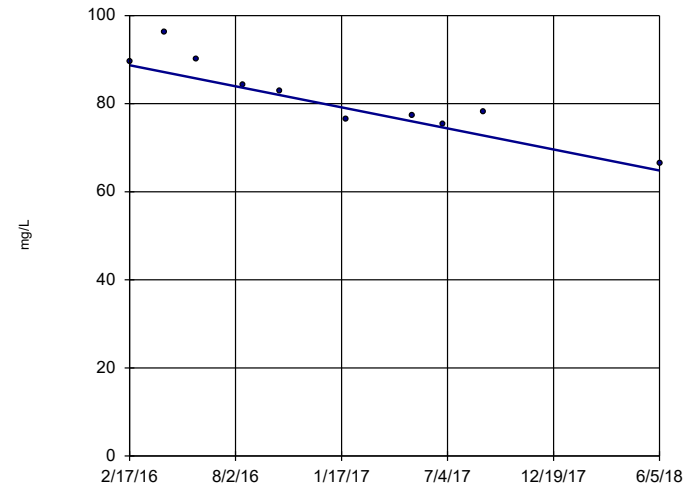


n = 10
 Slope = 21.98
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

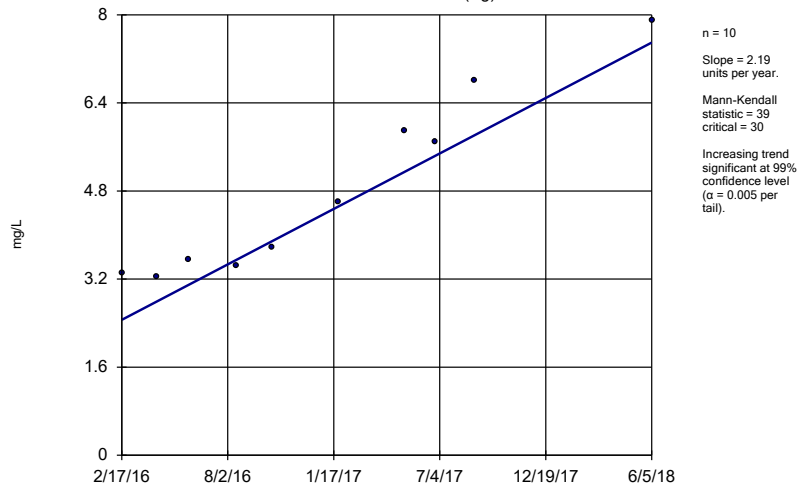
GC-AP-MW-18



n = 10
 Slope = -10.4
 units per year.
 Mann-Kendall
 statistic = -33
 critical = -30
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

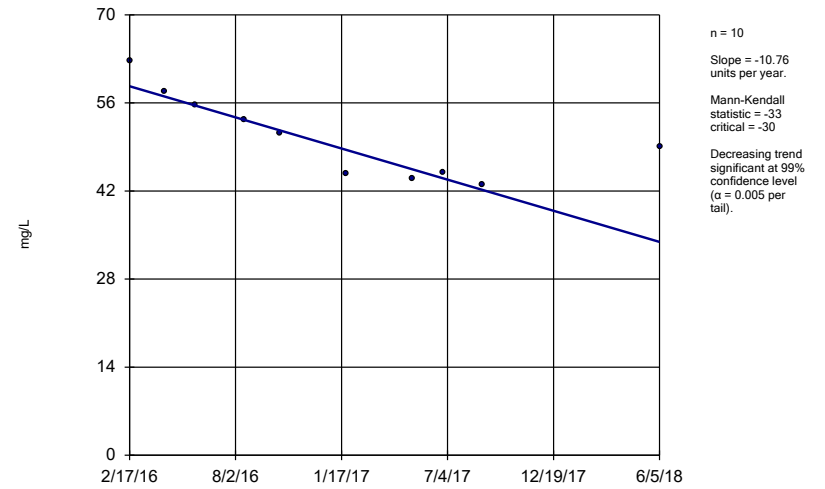
Constituent: Calcium Analysis Run 9/17/2018 2:25 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (Bg)



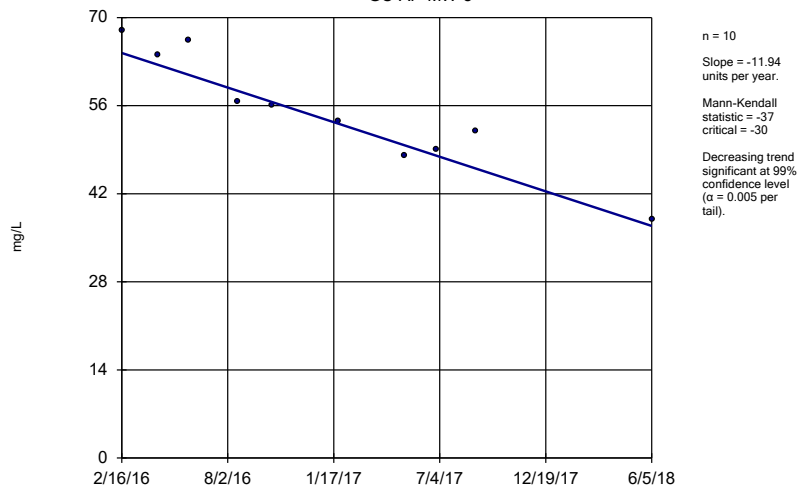
Constituent: Chloride Analysis Run 9/17/2018 2:26 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-7



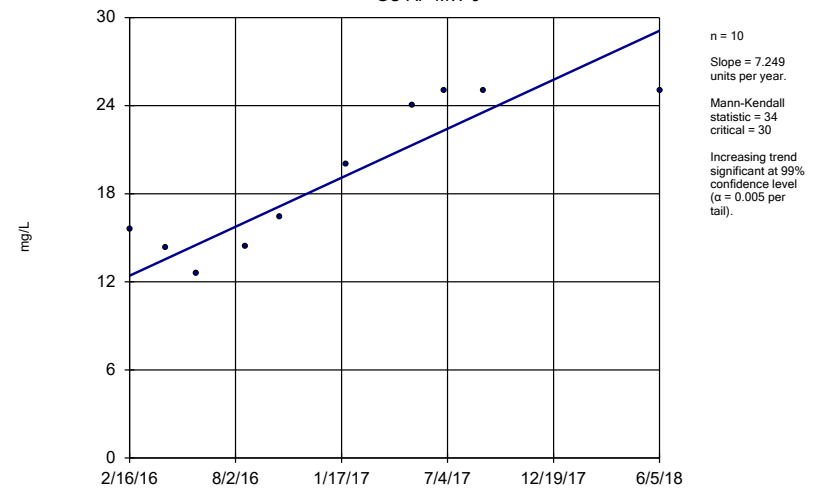
Constituent: Chloride Analysis Run 9/17/2018 2:26 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-8



Constituent: Chloride Analysis Run 9/17/2018 2:26 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

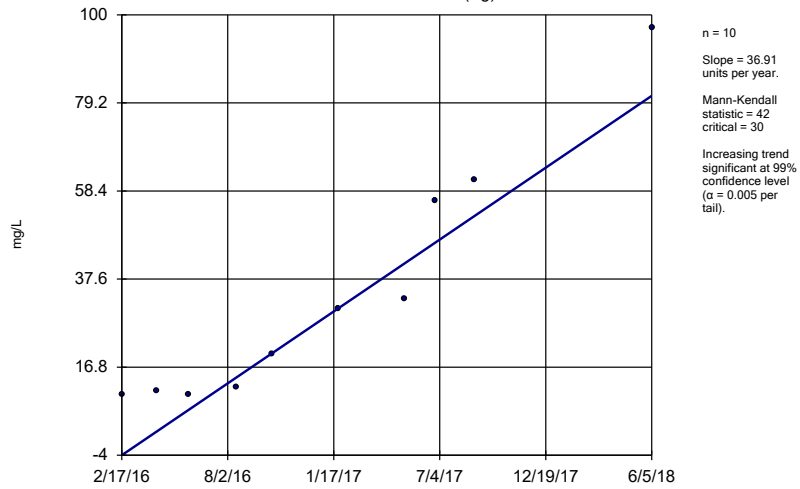
Sen's Slope Estimator GC-AP-MW-9



Constituent: Chloride Analysis Run 9/17/2018 2:26 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

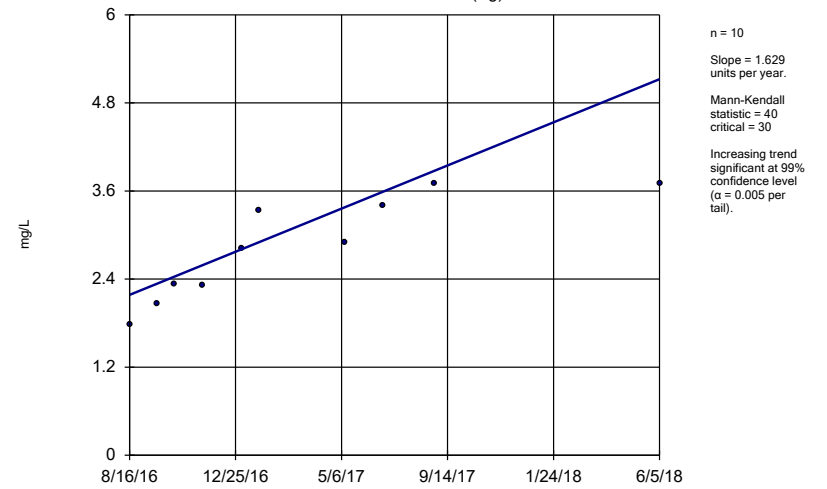
GC-AP-MW-24 (Bg)



Constituent: Sulfate Analysis Run 9/17/2018 2:26 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

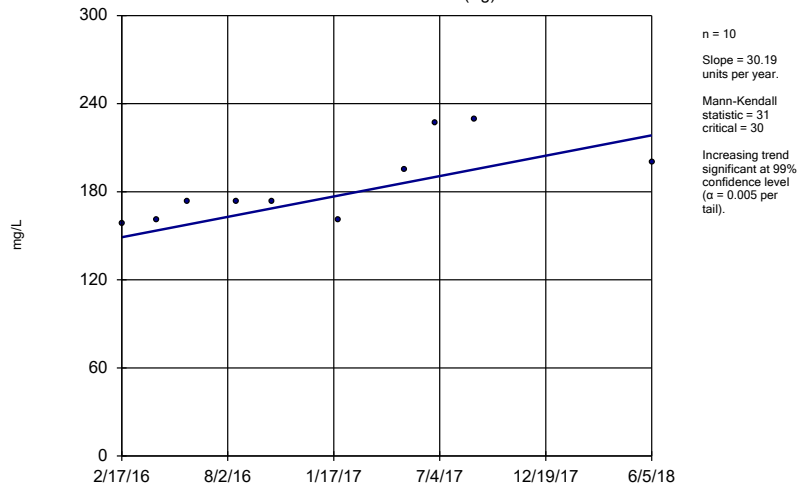
GC-AP-MW-31 (Bg)



Constituent: Sulfate Analysis Run 9/17/2018 2:27 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

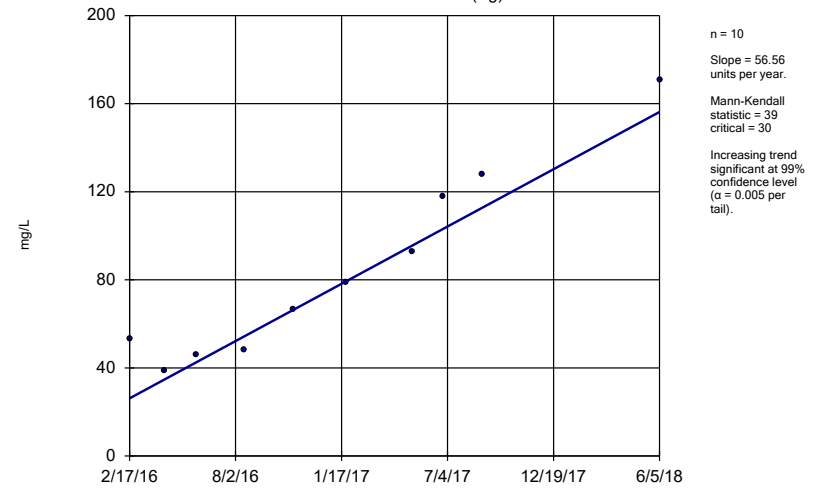
GC-AP-MW-11 (Bg)



Constituent: TDS Analysis Run 9/17/2018 2:27 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

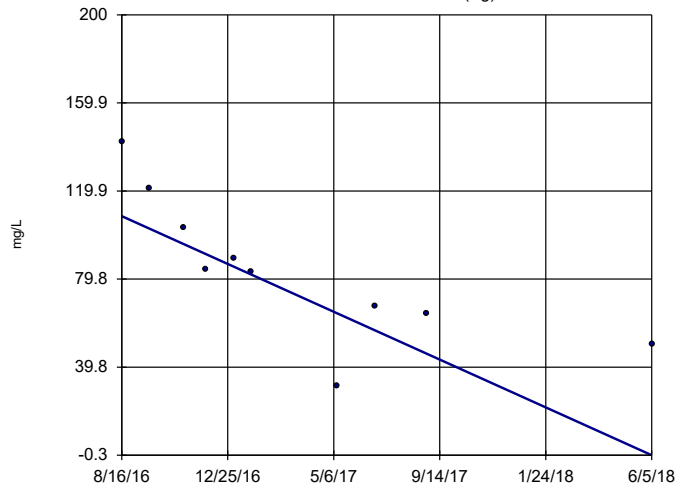
Sen's Slope Estimator

GC-AP-MW-24 (Bg)



Constituent: TDS Analysis Run 9/17/2018 2:27 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

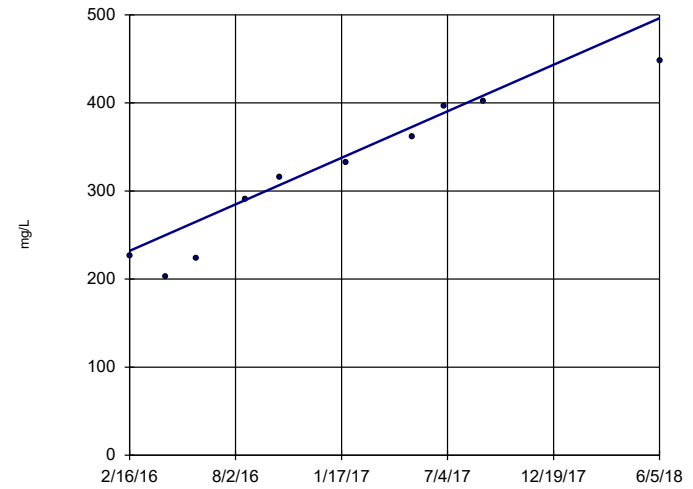
Sen's Slope Estimator GC-AP-MW-31 (Bg)



n = 10
 Slope = -60.3
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -30
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 9/17/2018 2:27 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

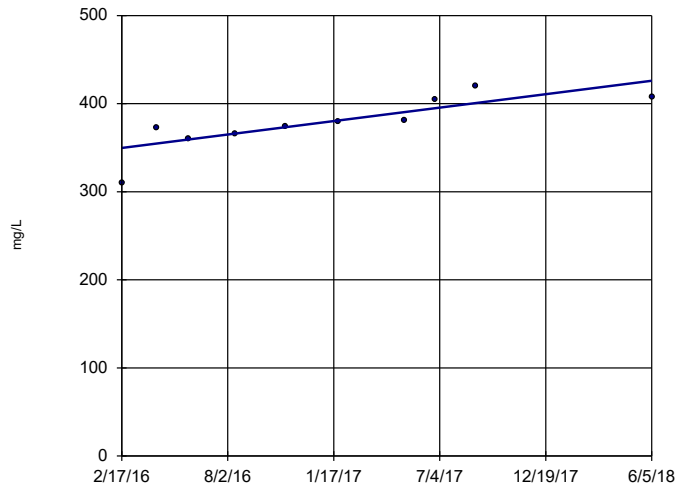
Sen's Slope Estimator GC-AP-MW-9



n = 10
 Slope = 114.7
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 9/17/2018 2:28 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

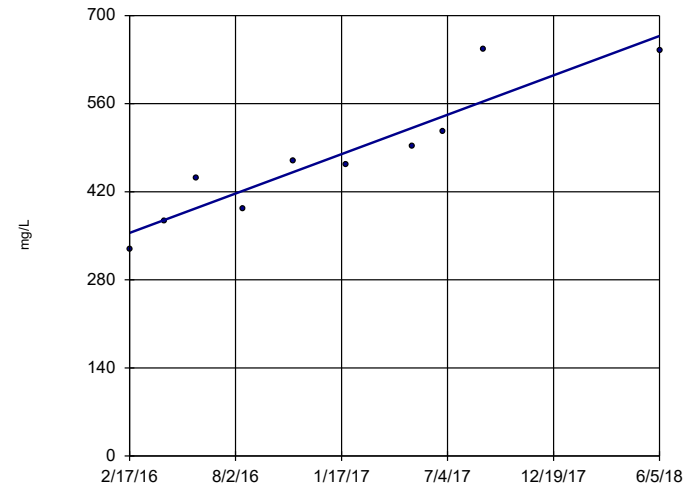
Sen's Slope Estimator GC-AP-MW-16



n = 10
 Slope = 33.18
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 9/17/2018 2:28 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

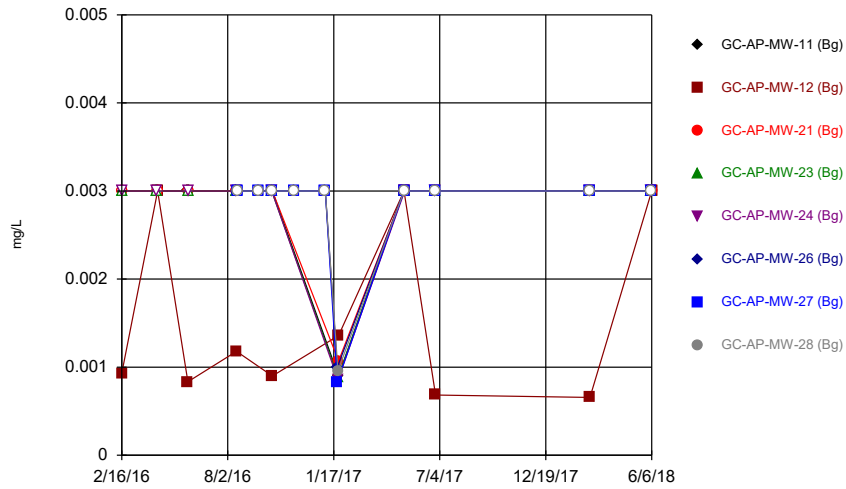
Sen's Slope Estimator GC-AP-MW-17



n = 10
 Slope = 136.2
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 30
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

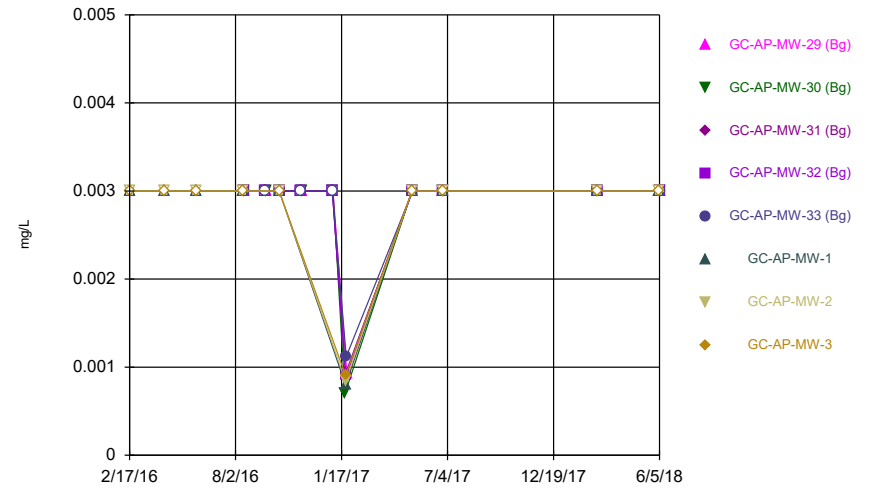
Constituent: TDS Analysis Run 9/17/2018 2:28 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Time Series



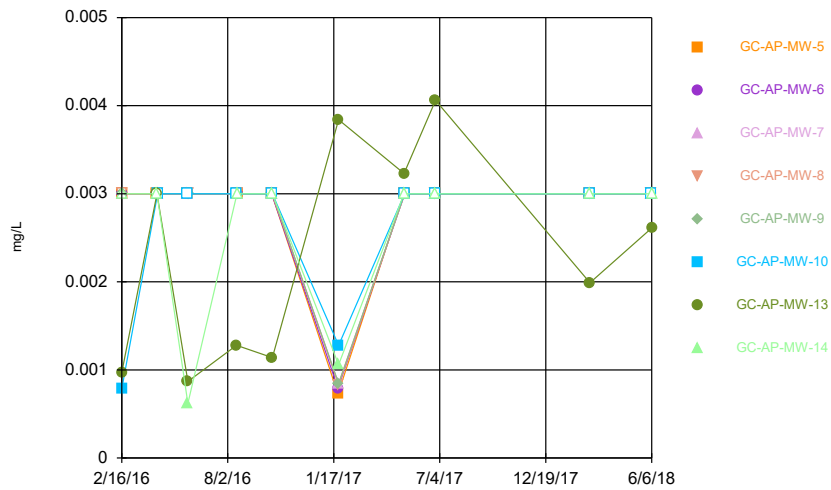
Constituent: Antimony Analysis Run 9/17/2018 2:29 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



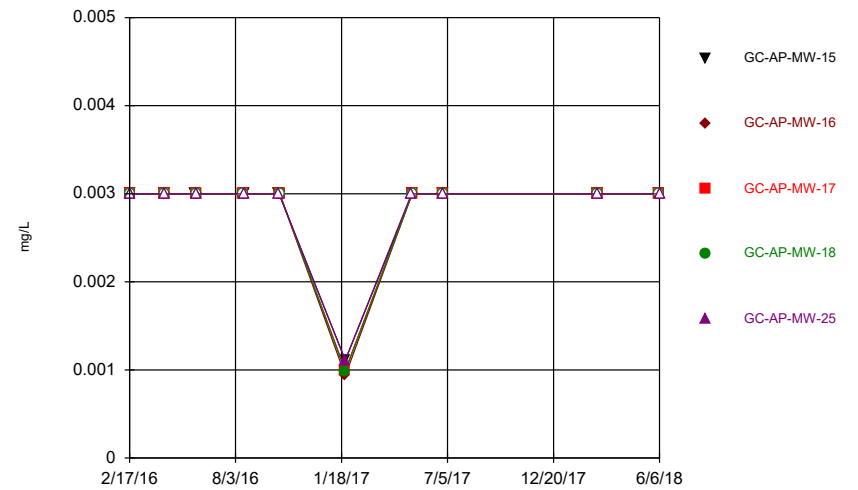
Constituent: Antimony Analysis Run 9/17/2018 2:29 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



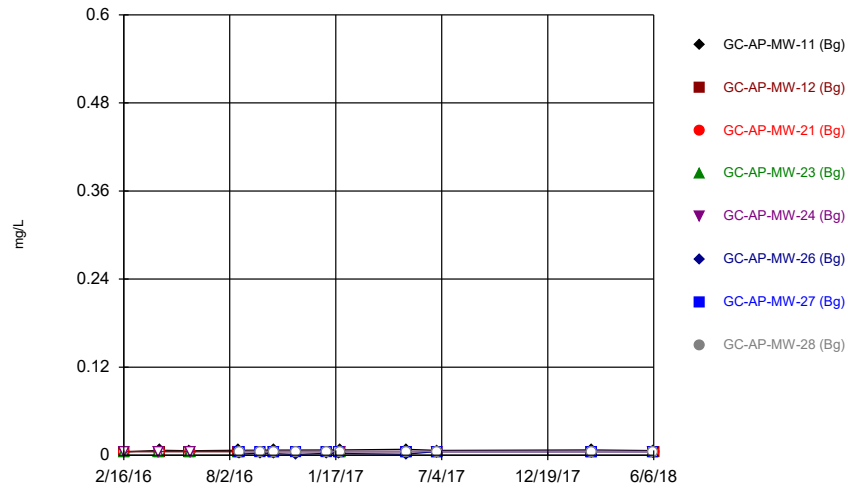
Constituent: Antimony Analysis Run 9/17/2018 2:29 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



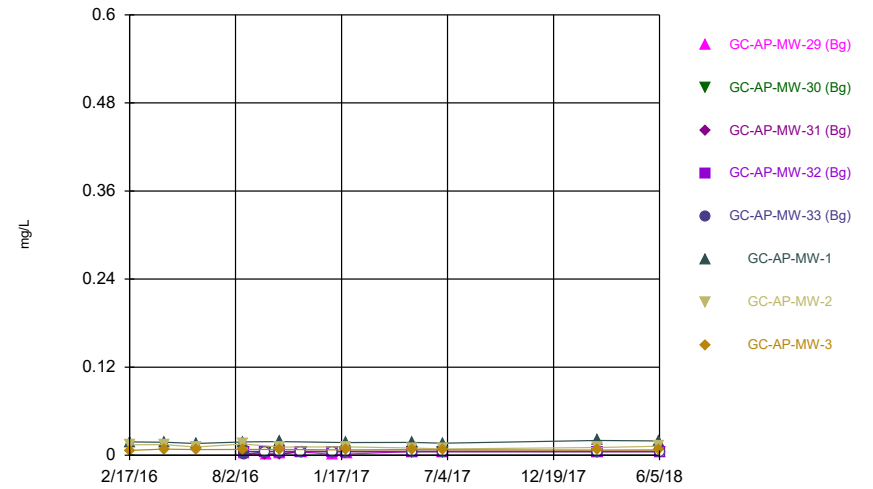
Constituent: Antimony Analysis Run 9/17/2018 2:29 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



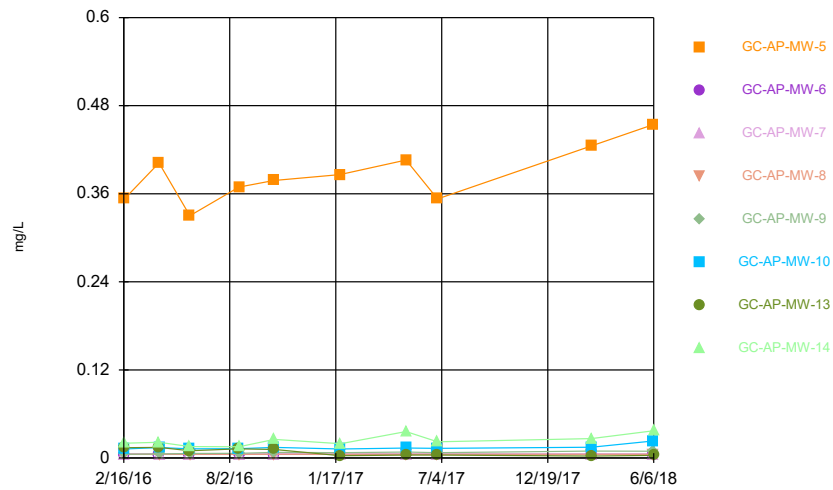
Constituent: Arsenic Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



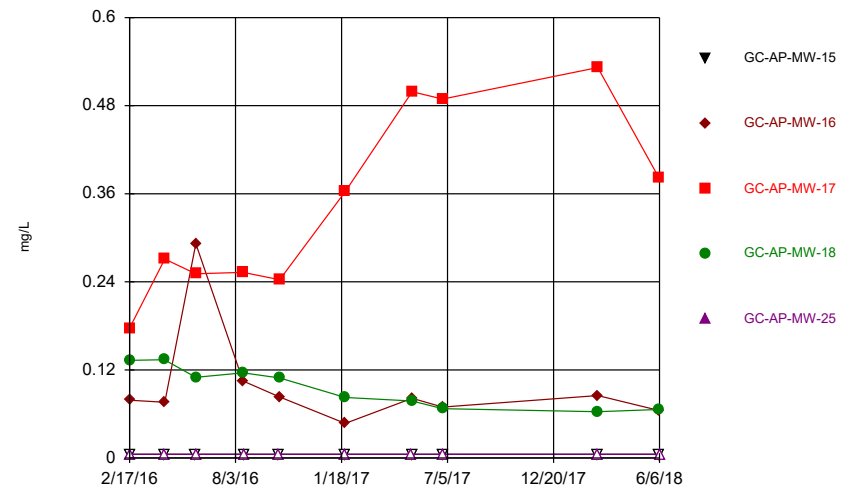
Constituent: Arsenic Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



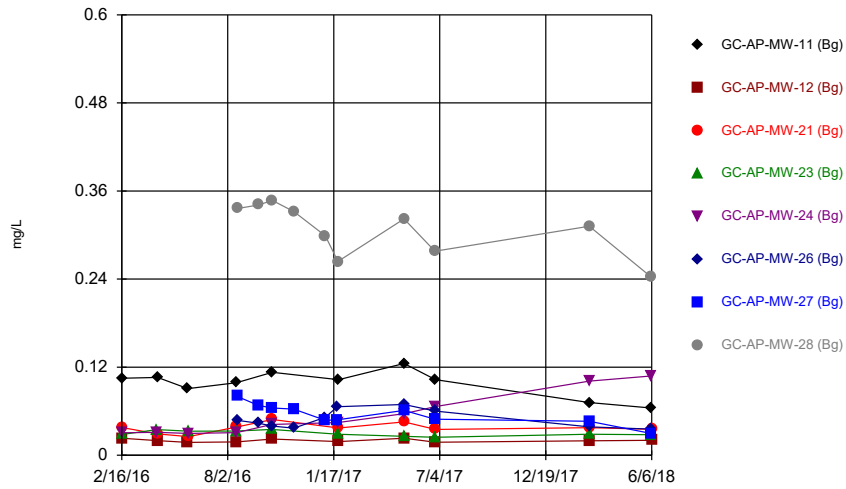
Constituent: Arsenic Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



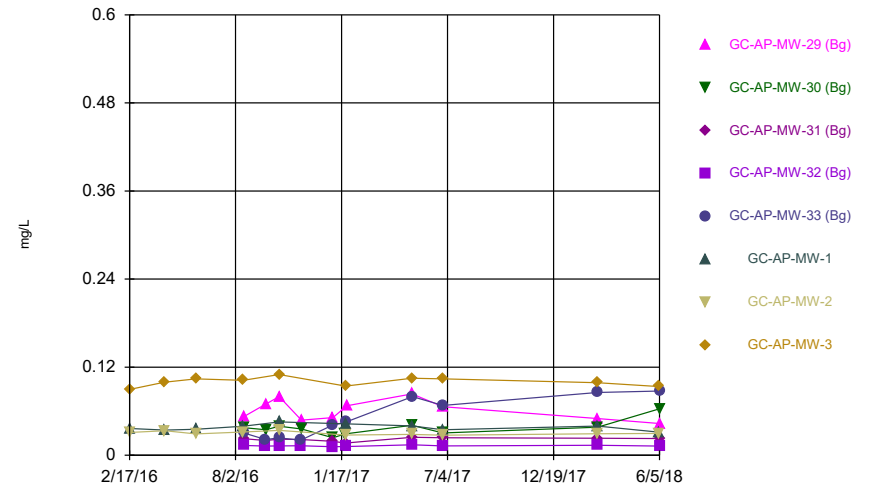
Constituent: Arsenic Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



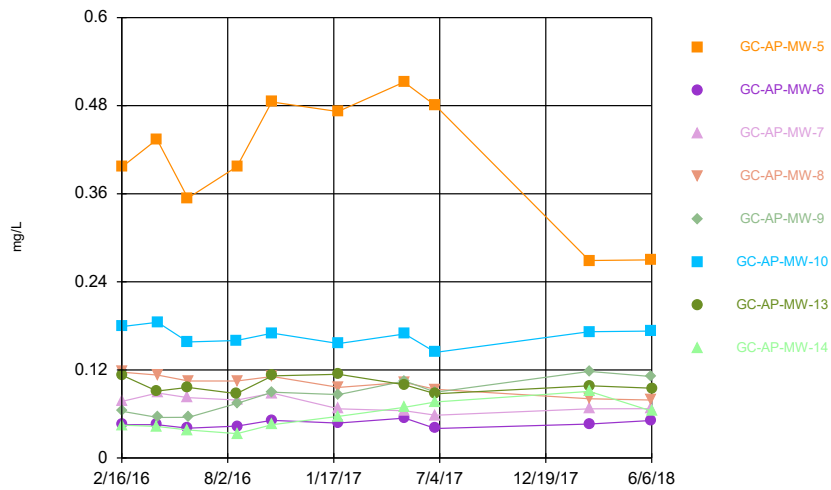
Constituent: Barium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



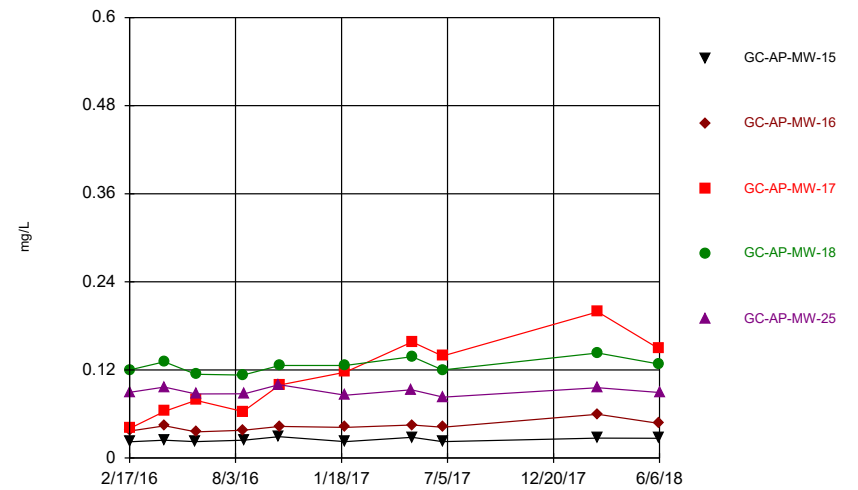
Constituent: Barium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



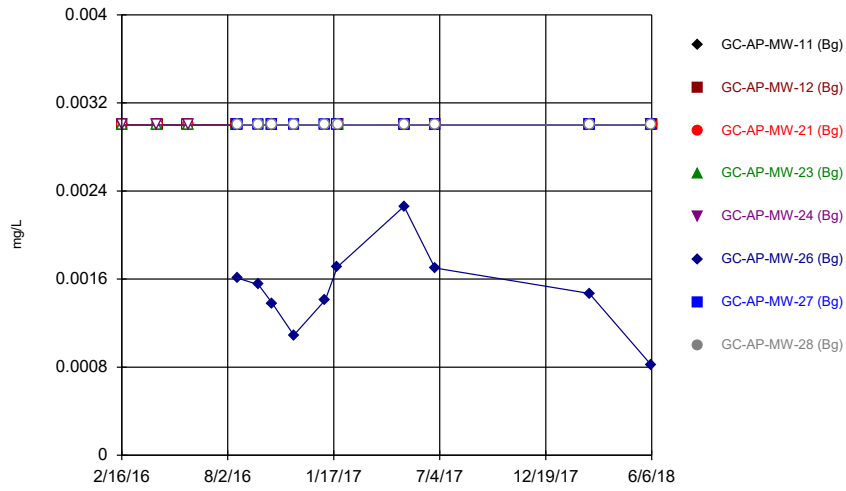
Constituent: Barium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



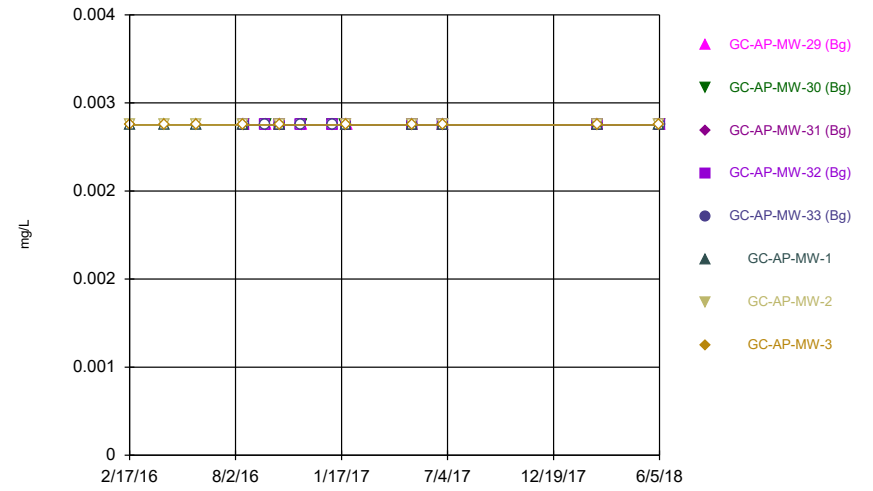
Constituent: Barium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



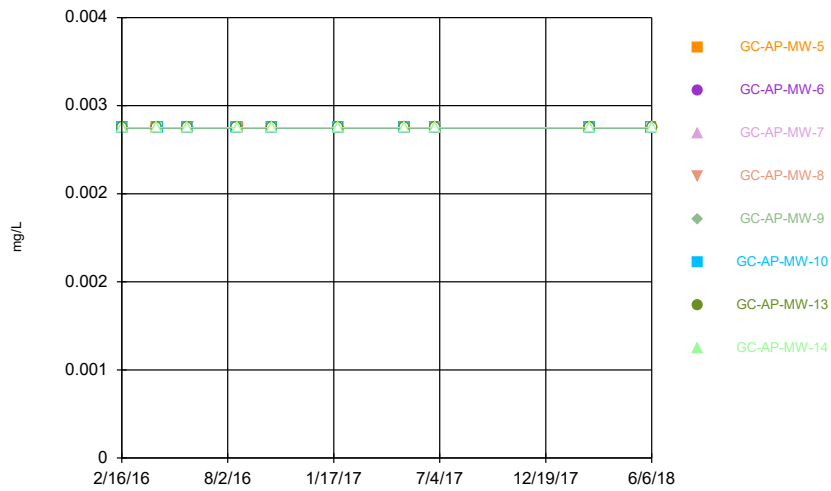
Constituent: Beryllium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



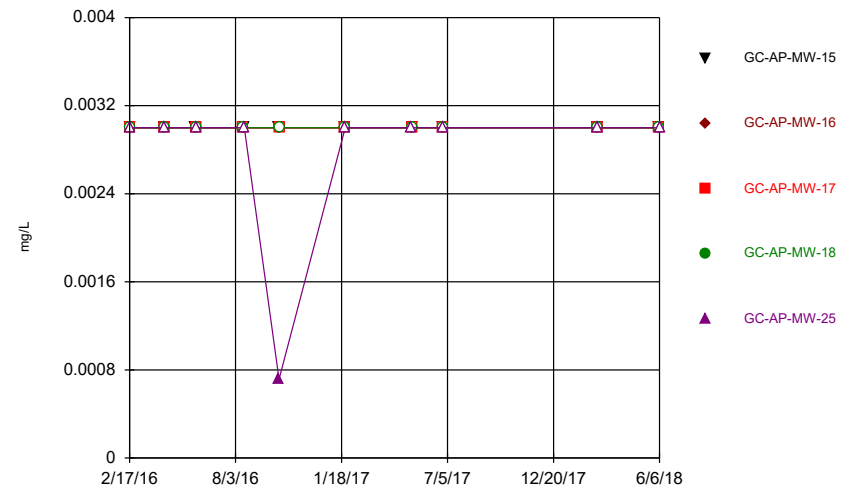
Constituent: Beryllium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



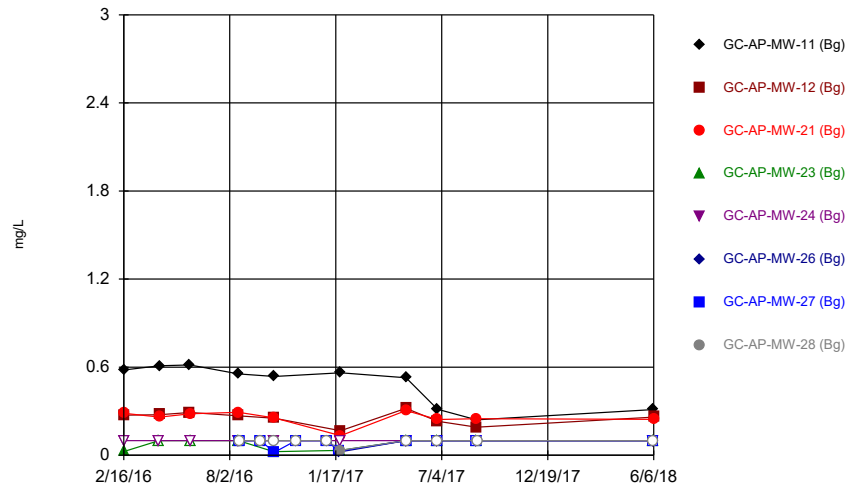
Constituent: Beryllium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



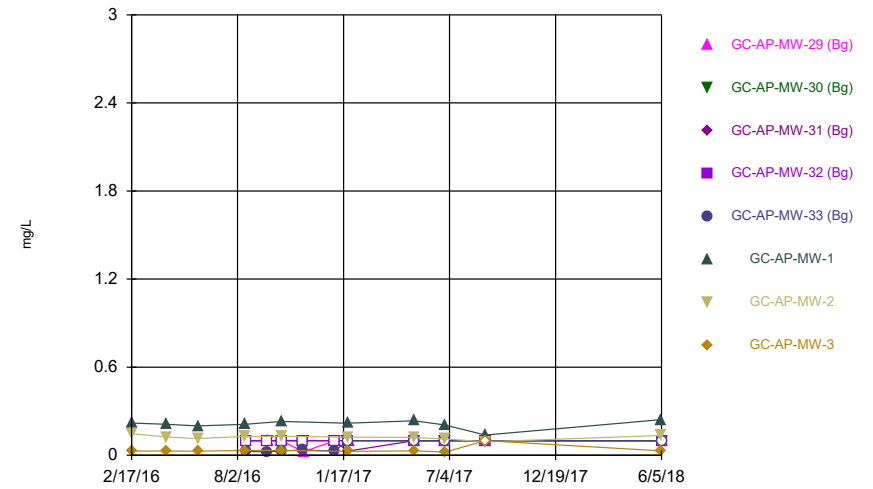
Constituent: Beryllium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



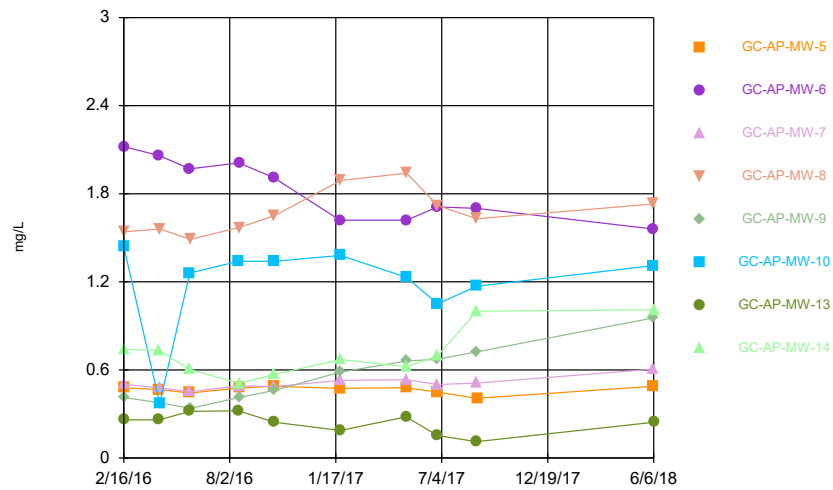
Constituent: Boron Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



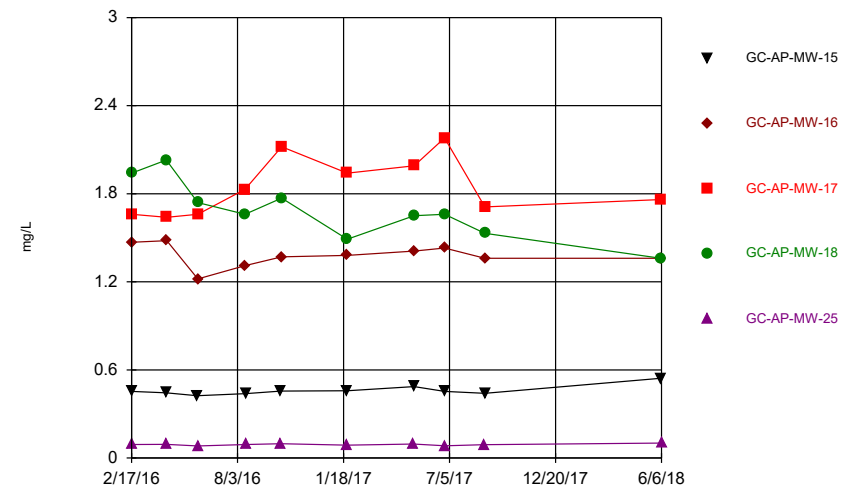
Constituent: Boron Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



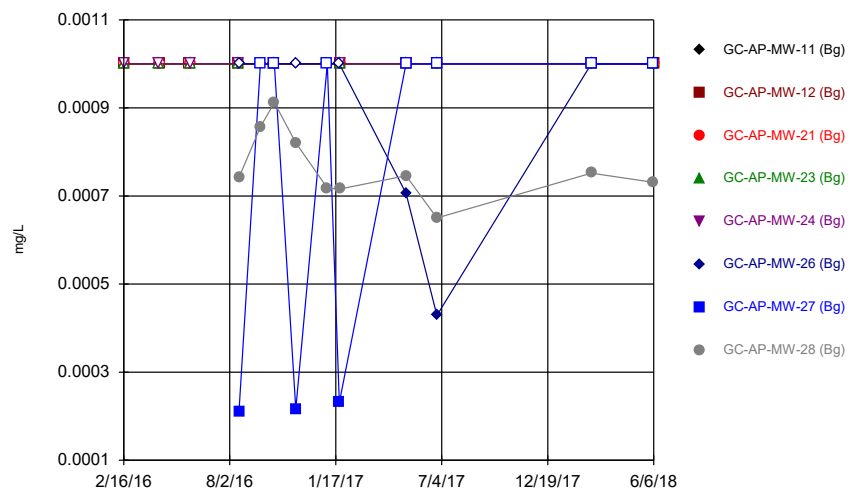
Constituent: Boron Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



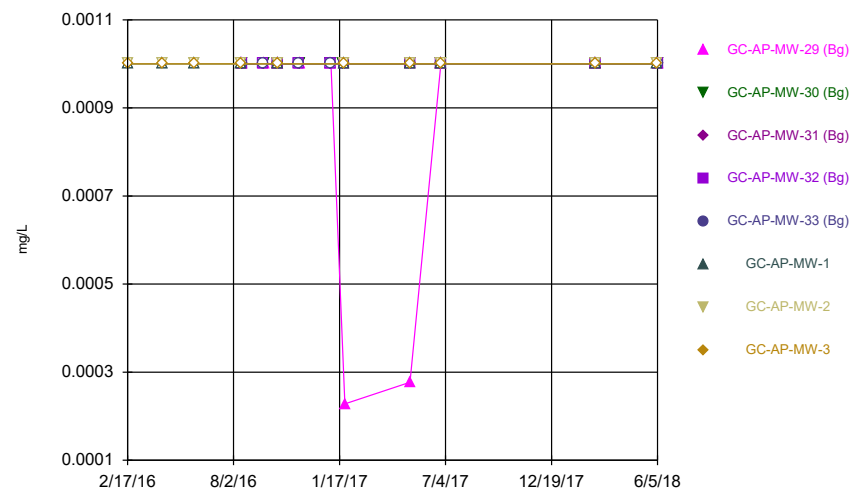
Constituent: Boron Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



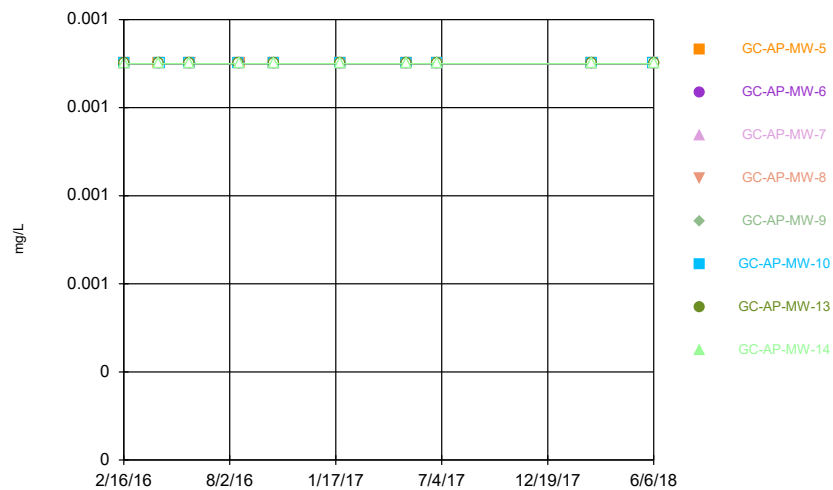
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Greene County Client: Southern Company Data: Greene County AP

Time Series



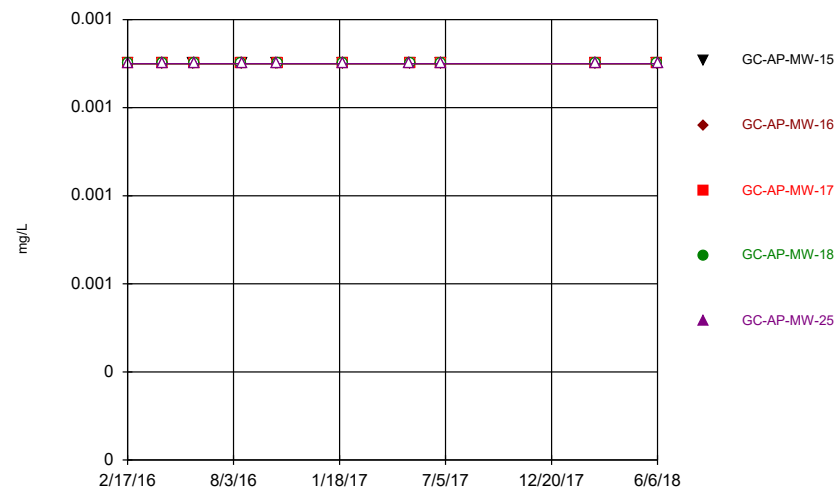
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Greene County Client: Southern Company Data: Greene County AP

Time Series



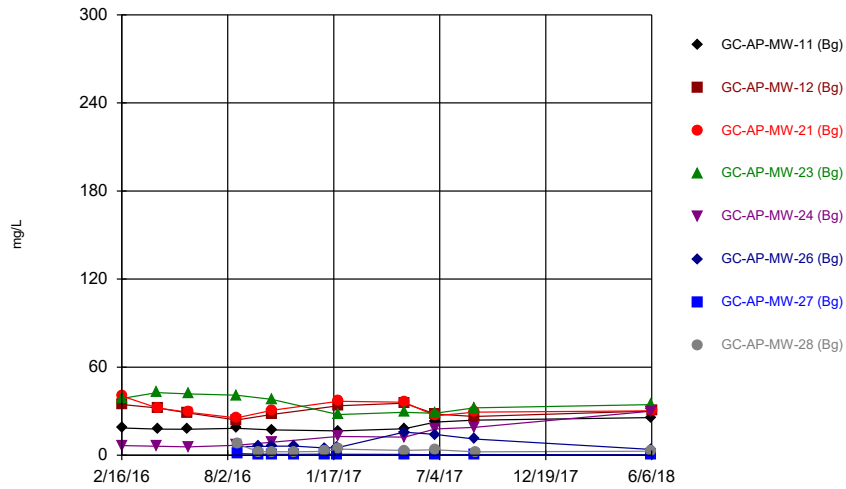
Constituent: Cadmium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



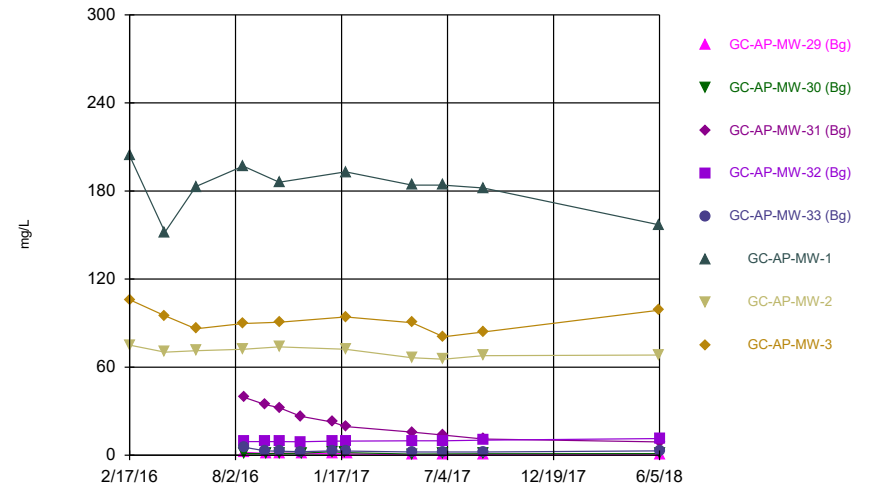
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Greene County Client: Southern Company Data: Greene County AP

Time Series



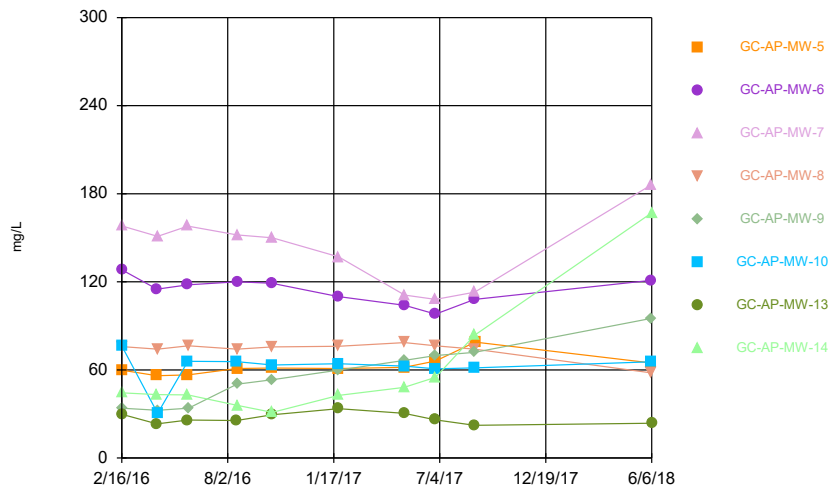
Constituent: Calcium Analysis Run 9/17/2018 2:30 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



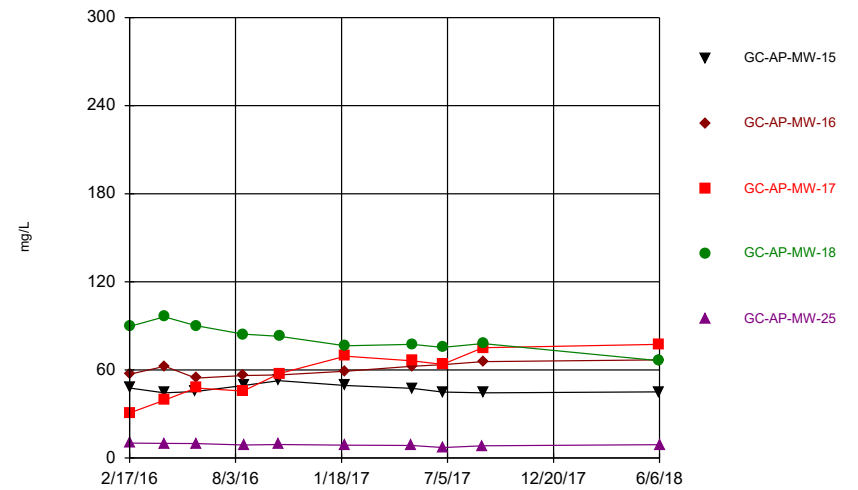
Constituent: Calcium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



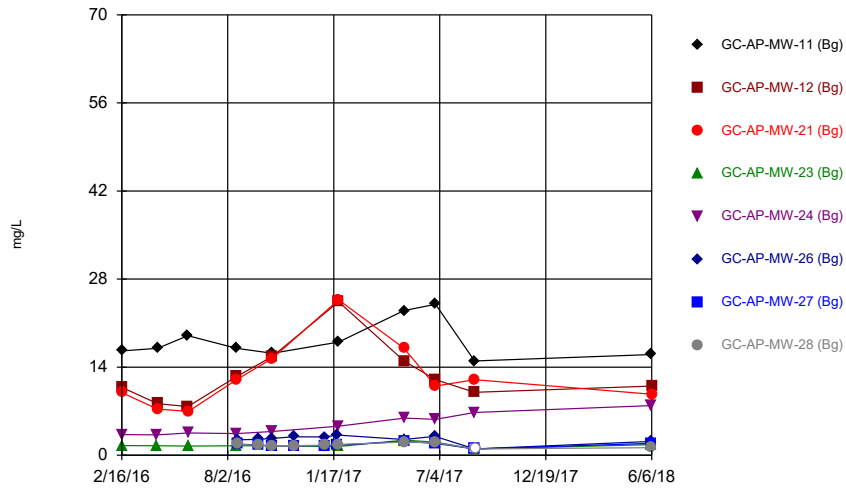
Constituent: Calcium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



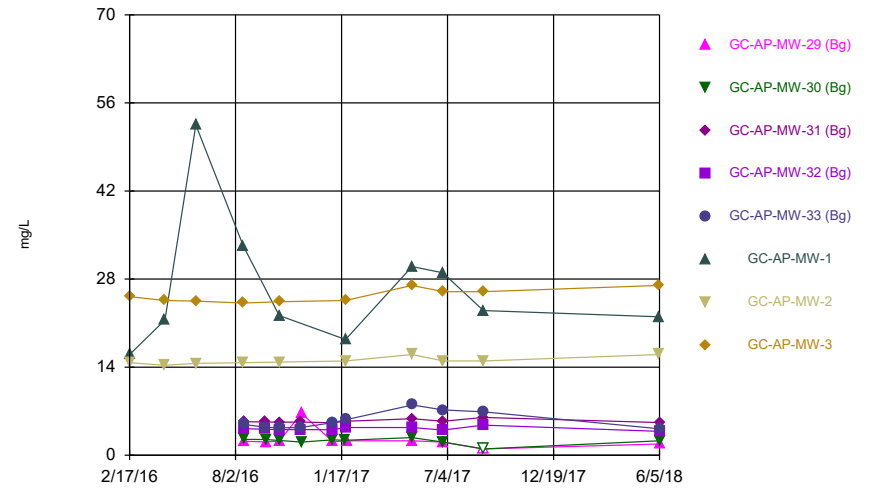
Constituent: Calcium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



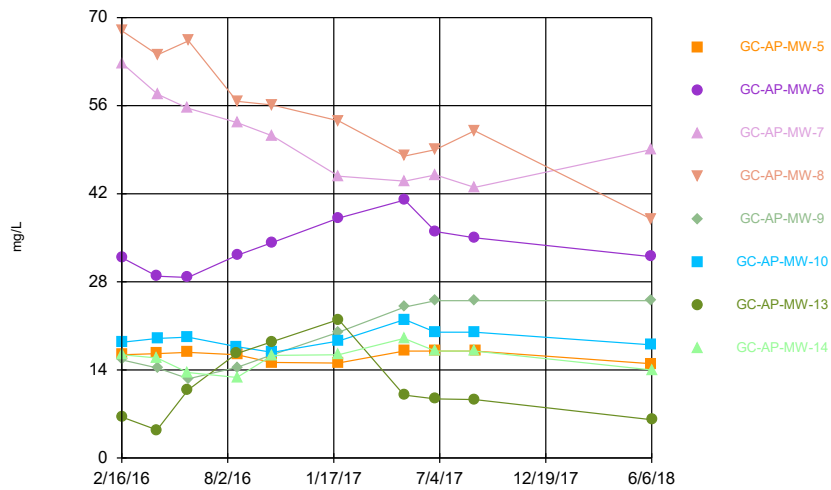
Constituent: Chloride Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



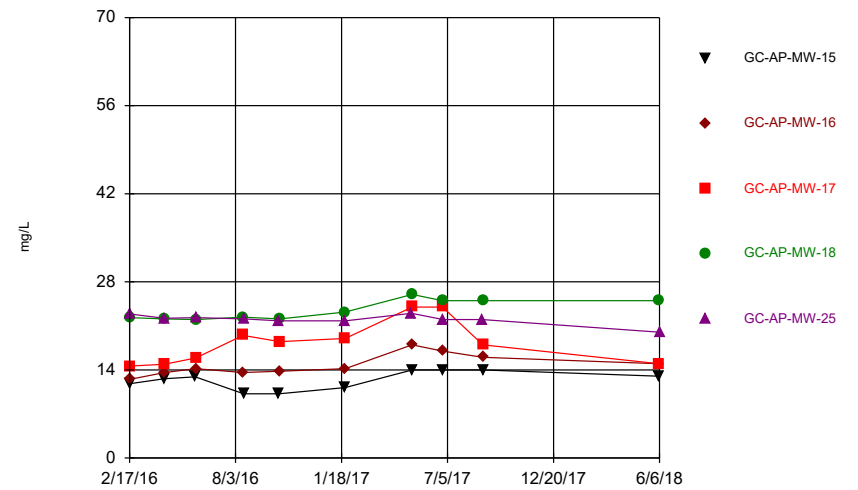
Constituent: Chloride Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



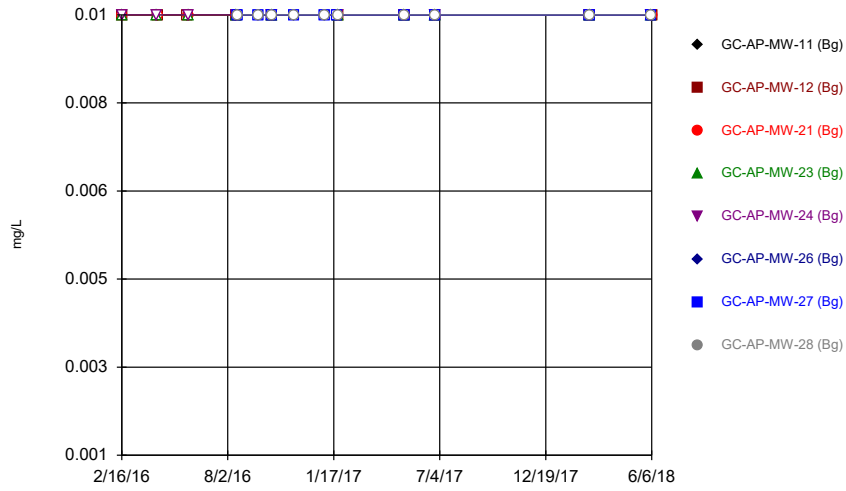
Constituent: Chloride Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



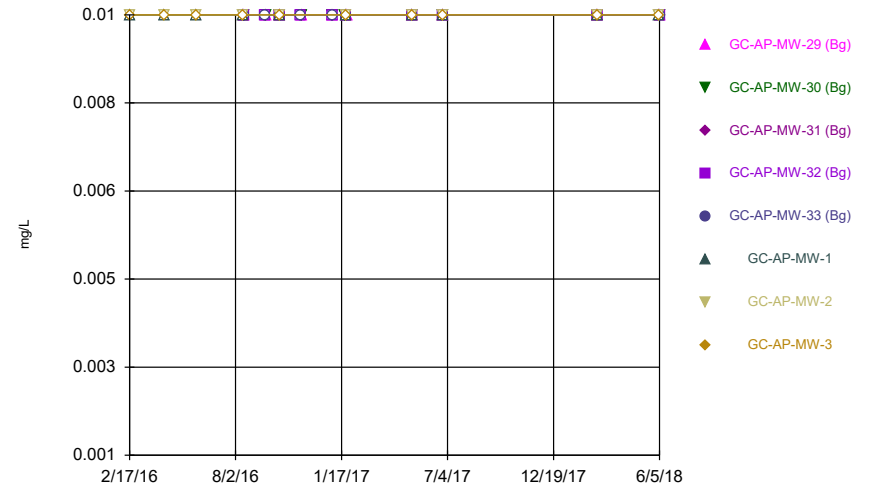
Constituent: Chloride Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



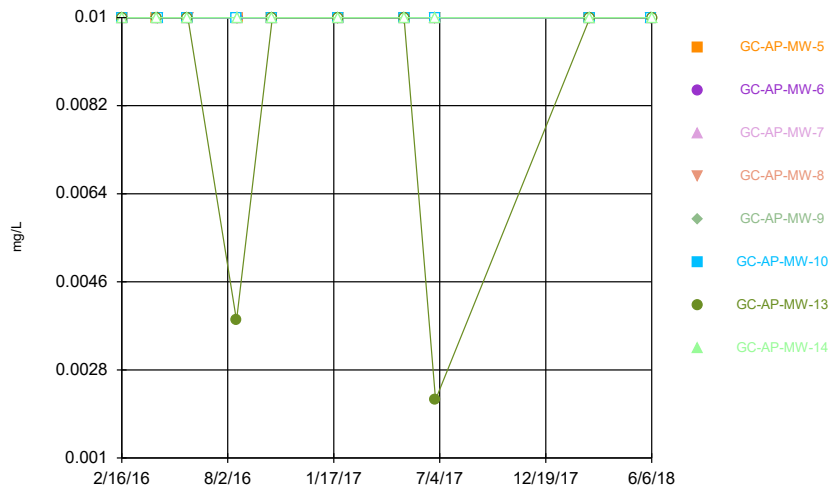
Constituent: Chromium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



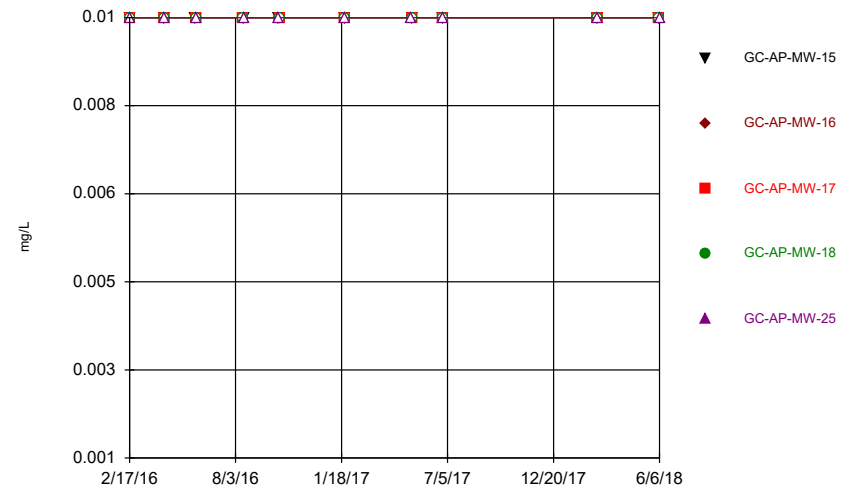
Constituent: Chromium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



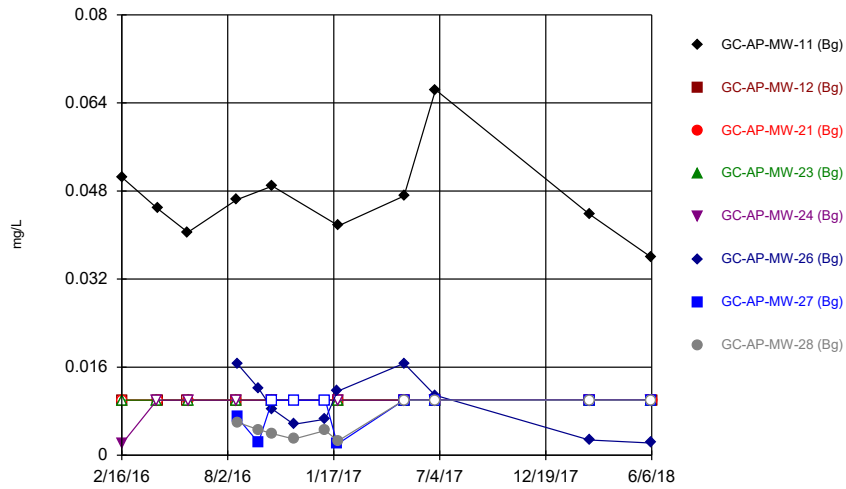
Constituent: Chromium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



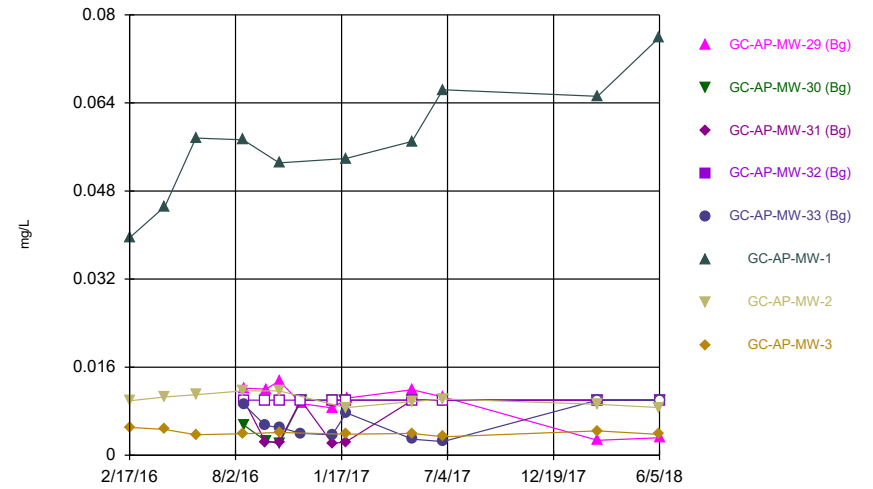
Constituent: Chromium Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



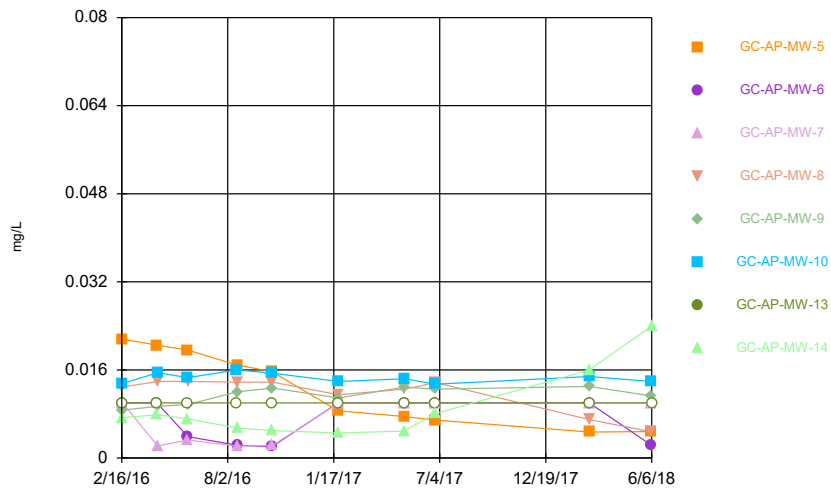
Constituent: Cobalt Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



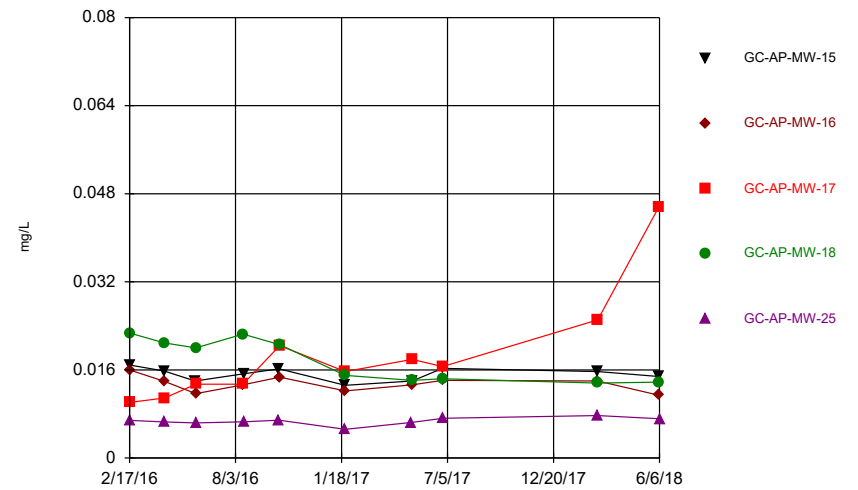
Constituent: Cobalt Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



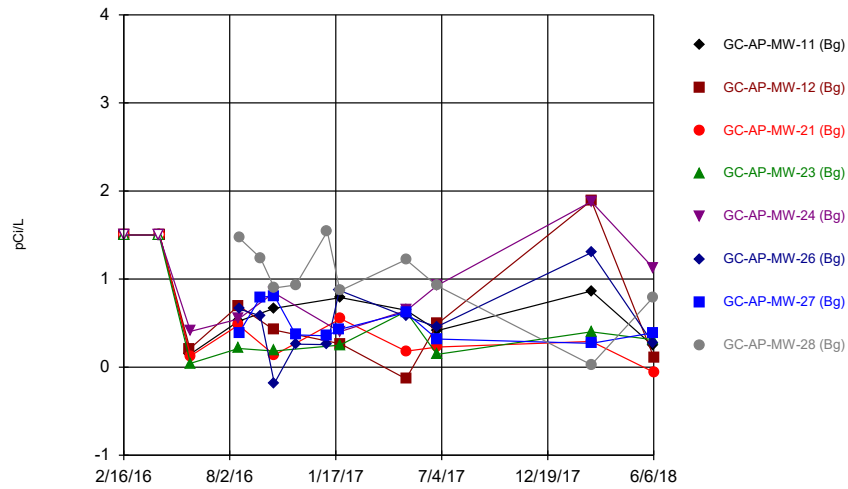
Constituent: Cobalt Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



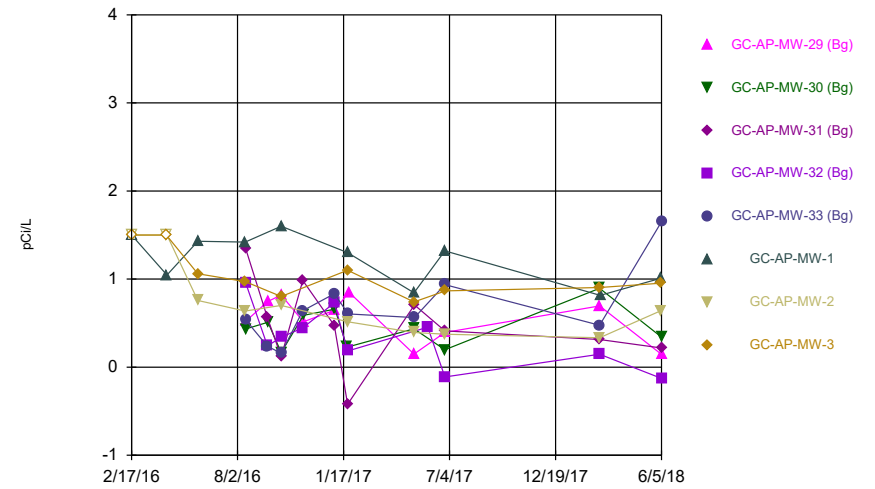
Constituent: Cobalt Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



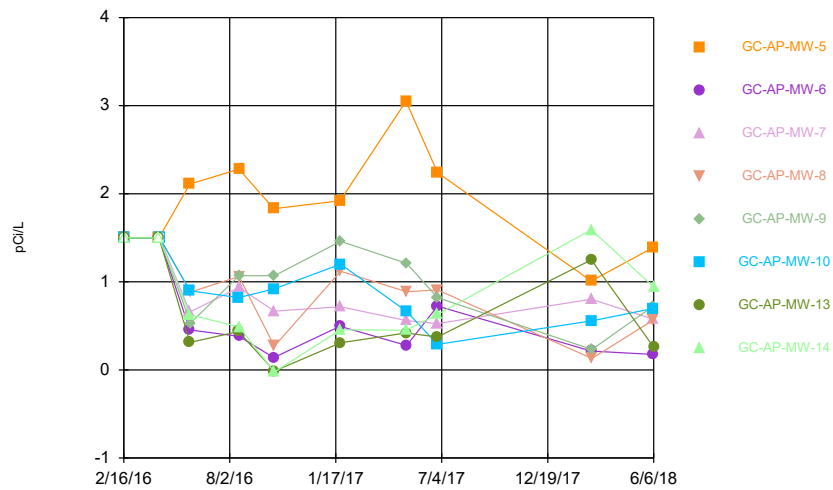
Constituent: Combined Radium 226 + 228 Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



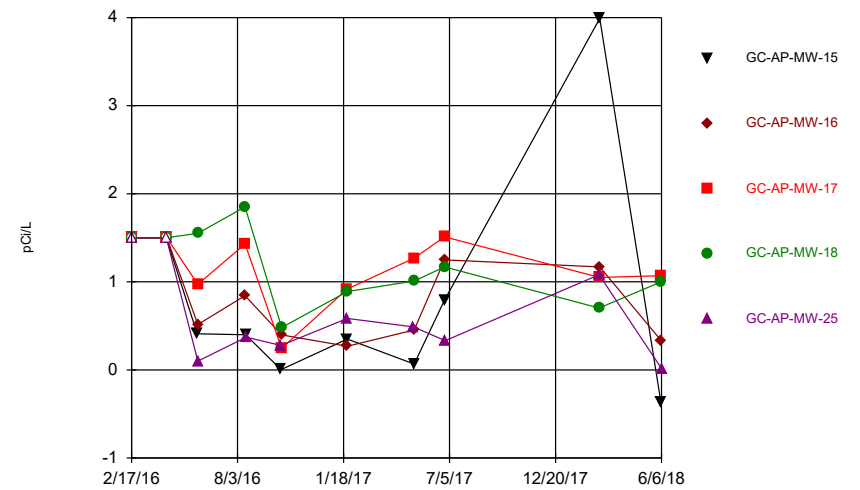
Constituent: Combined Radium 226 + 228 Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



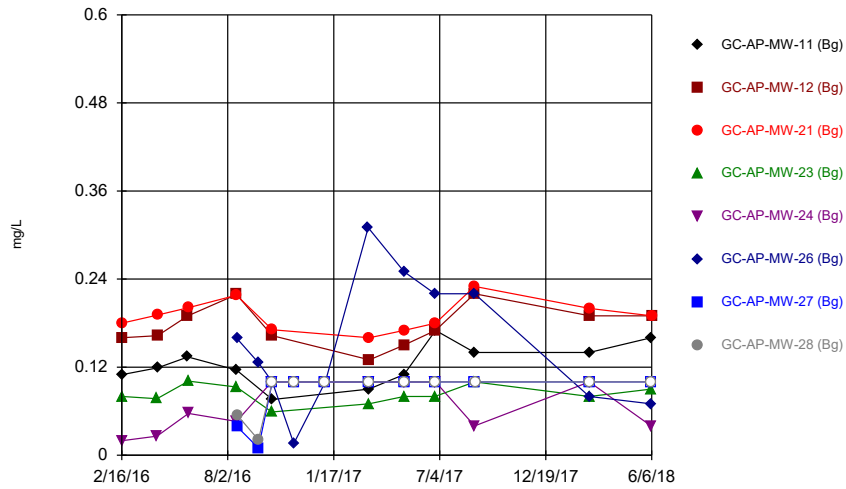
Constituent: Combined Radium 226 + 228 Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



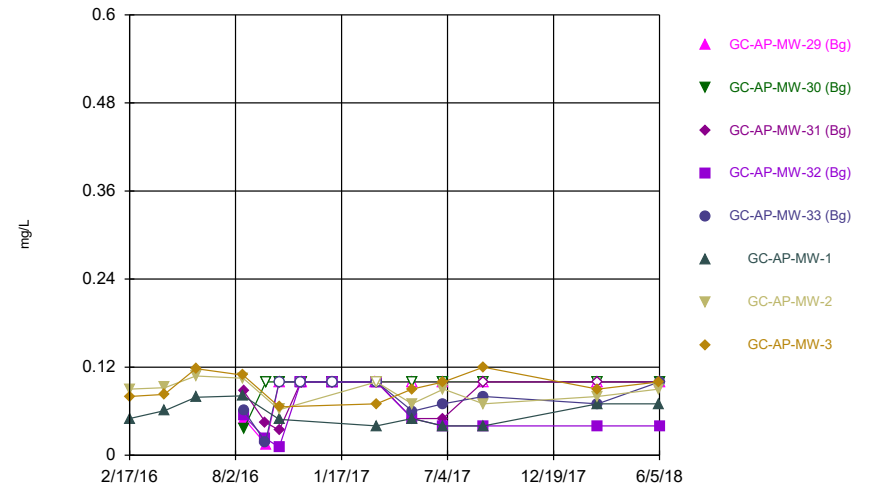
Constituent: Combined Radium 226 + 228 Analysis Run 9/17/2018 2:31 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



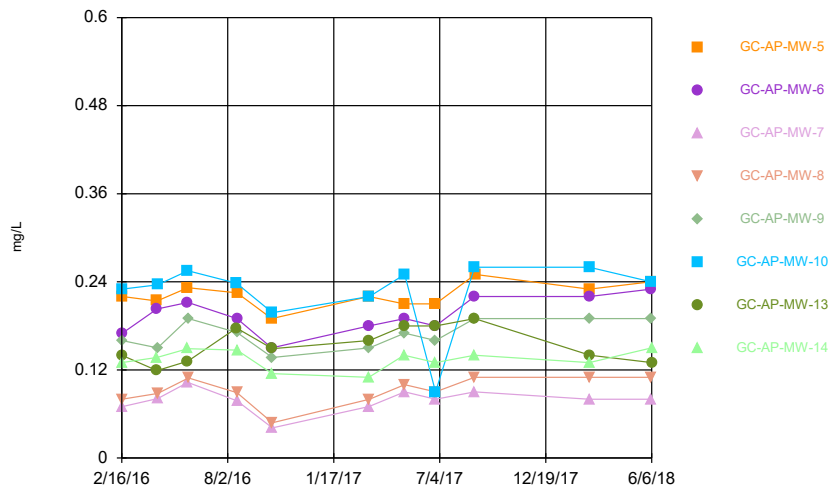
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Greene County Client: Southern Company Data: Greene County AP

Time Series



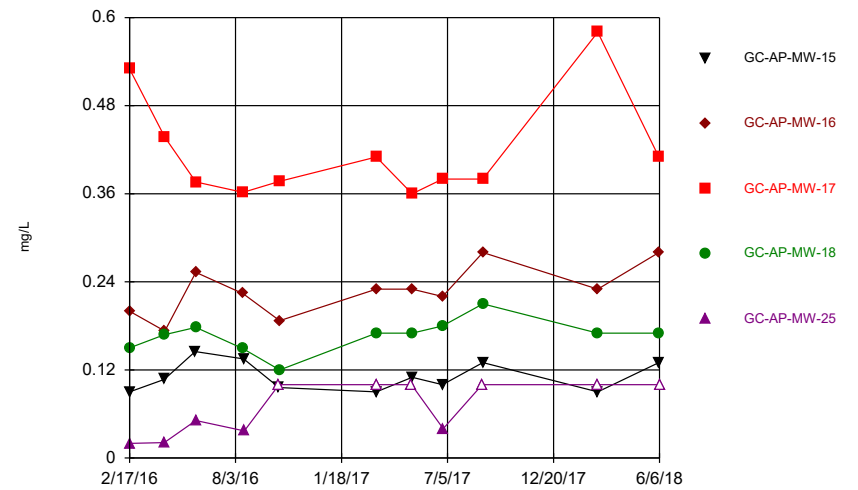
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Greene County Client: Southern Company Data: Greene County AP

Time Series



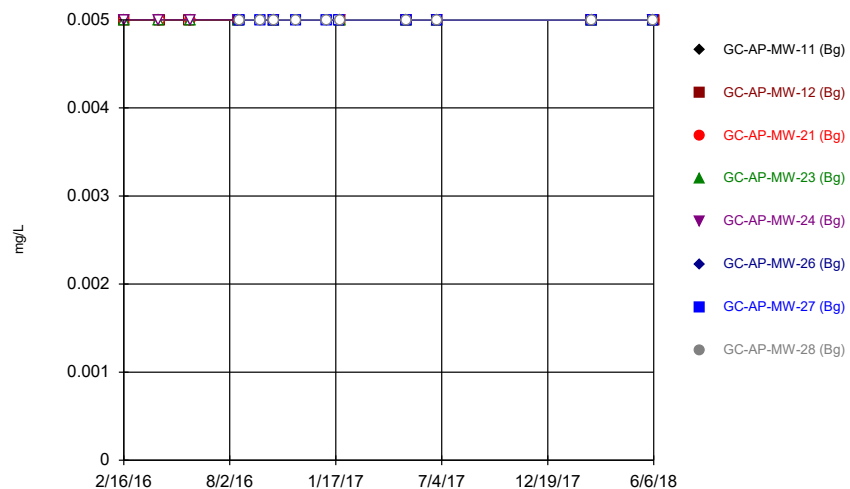
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Greene County Client: Southern Company Data: Greene County AP

Time Series



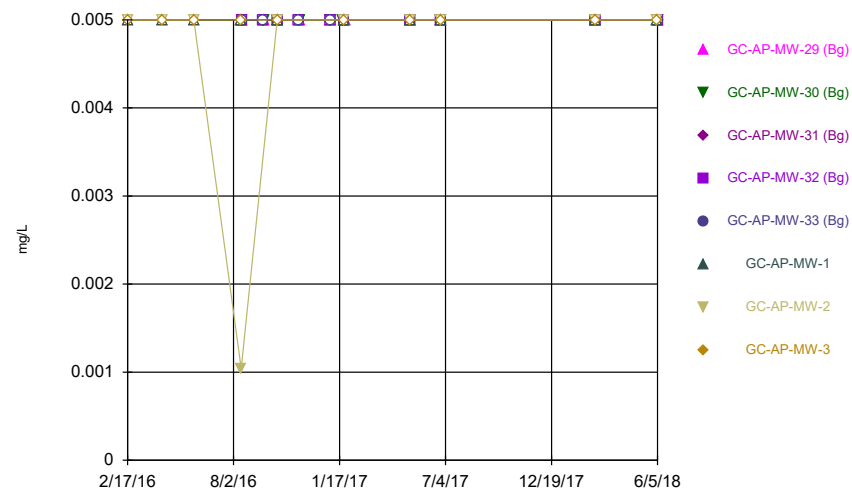
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Greene County Client: Southern Company Data: Greene County AP

Time Series



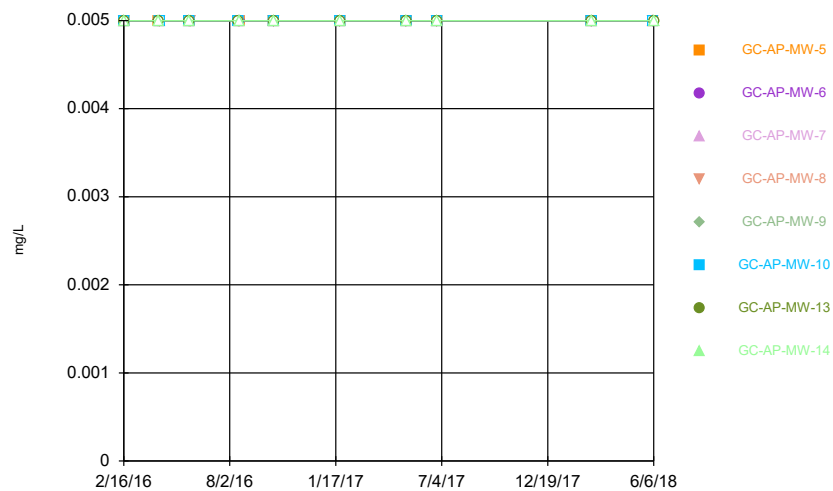
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Greene County Client: Southern Company Data: Greene County AP

Time Series



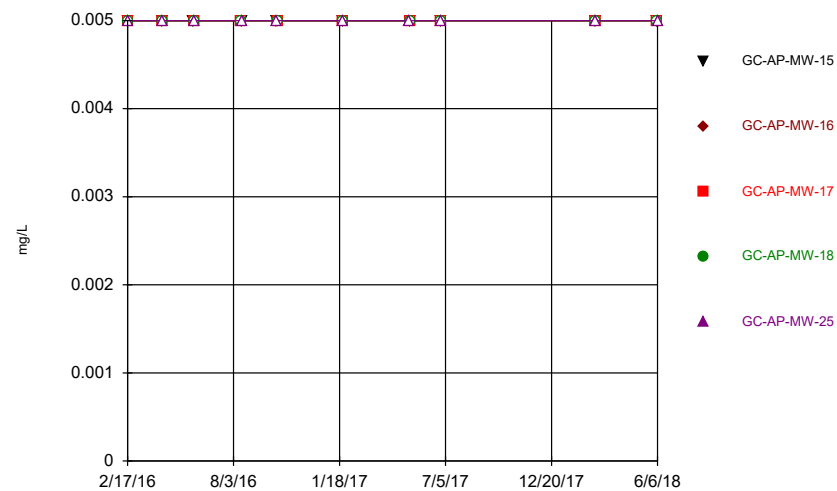
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Greene County Client: Southern Company Data: Greene County AP

Time Series



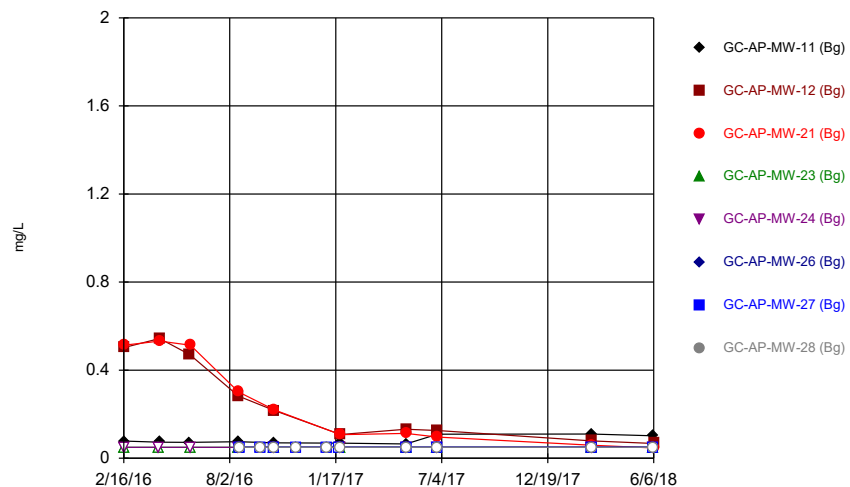
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Greene County Client: Southern Company Data: Greene County AP

Time Series



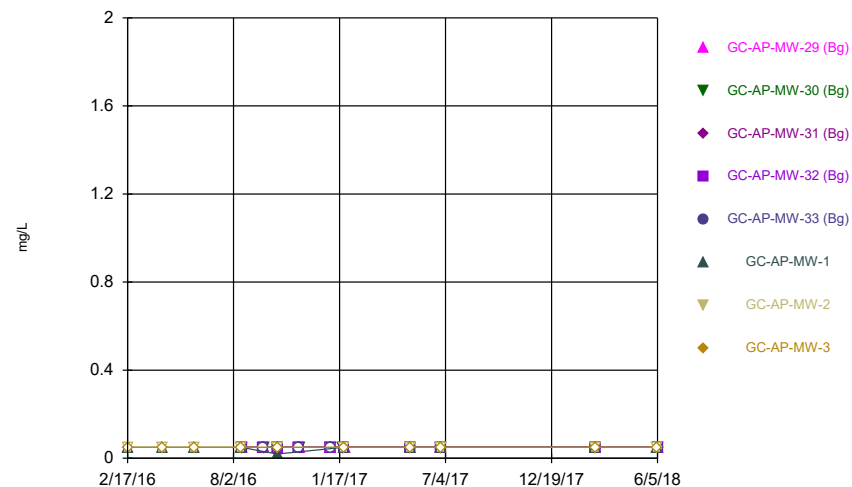
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Greene County Client: Southern Company Data: Greene County AP

Time Series



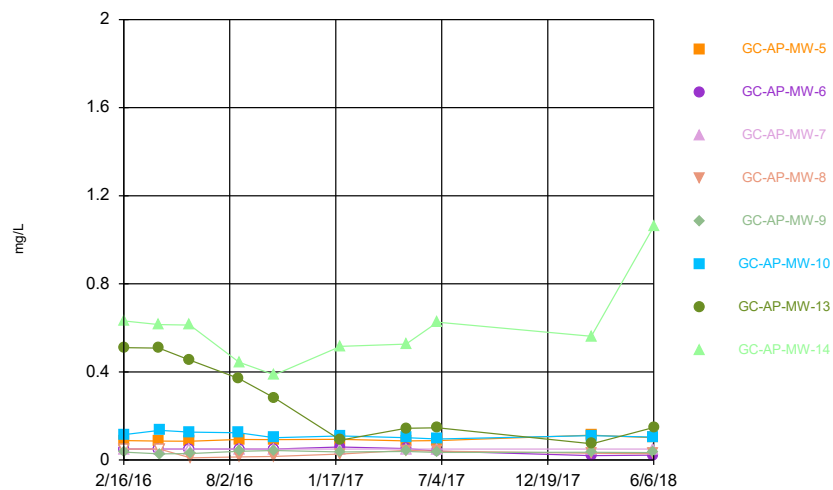
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Greene County Client: Southern Company Data: Greene County AP

Time Series



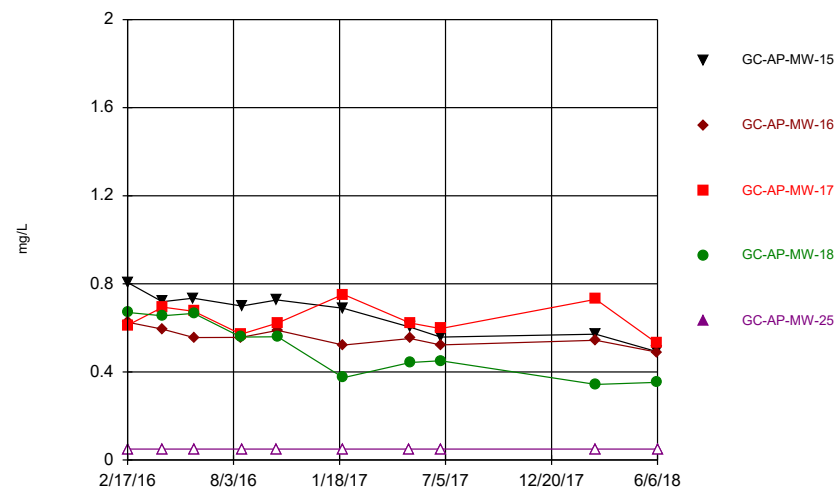
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Greene County Client: Southern Company Data: Greene County AP

Time Series



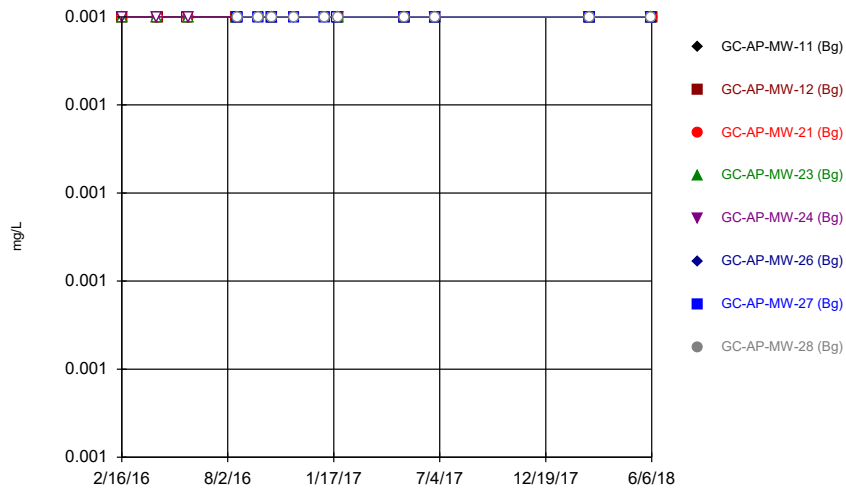
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Greene County Client: Southern Company Data: Greene County AP

Time Series



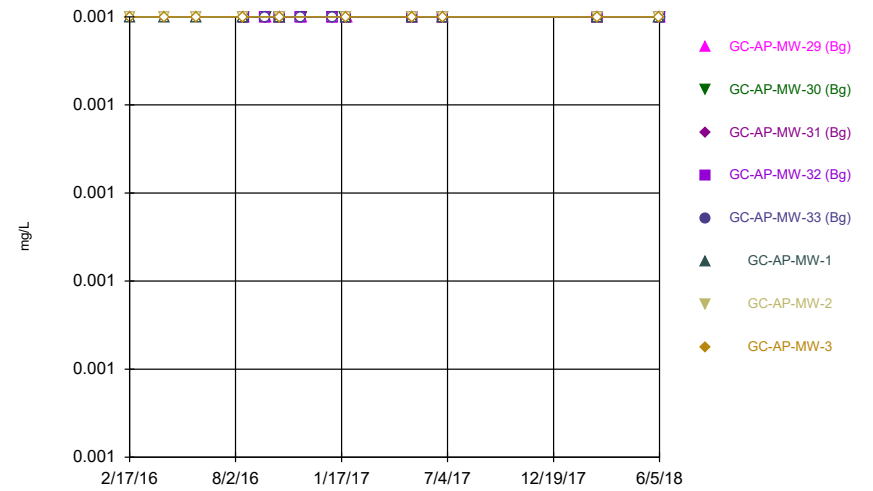
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Greene County Client: Southern Company Data: Greene County AP

Time Series



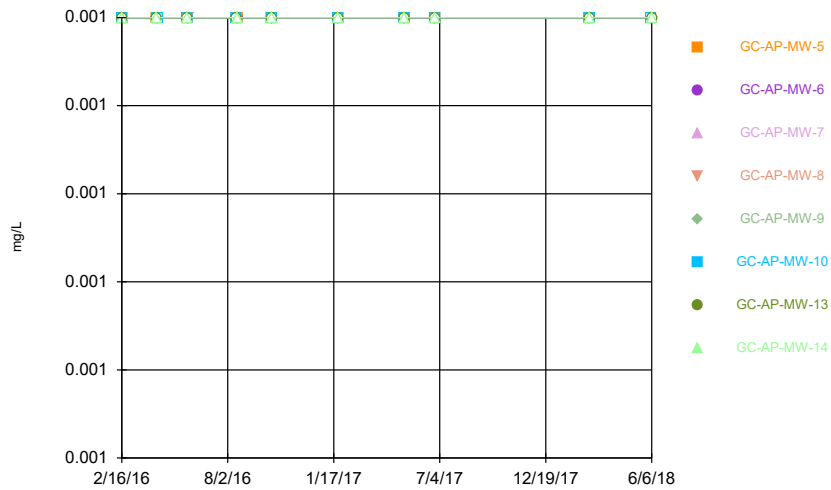
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Greene County Client: Southern Company Data: Greene County AP

Time Series



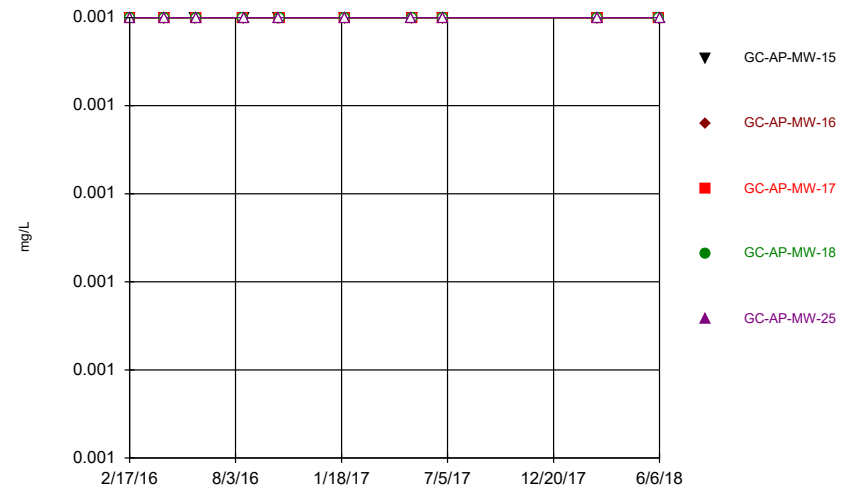
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Greene County Client: Southern Company Data: Greene County AP

Time Series



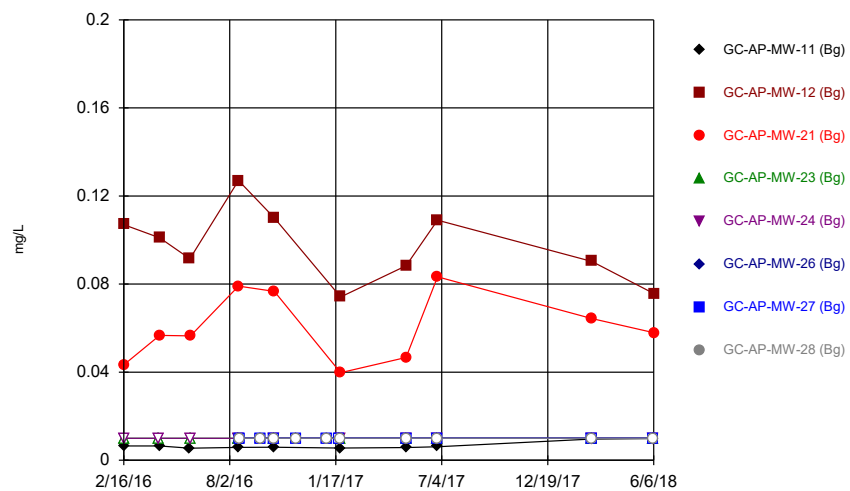
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Greene County Client: Southern Company Data: Greene County AP

Time Series



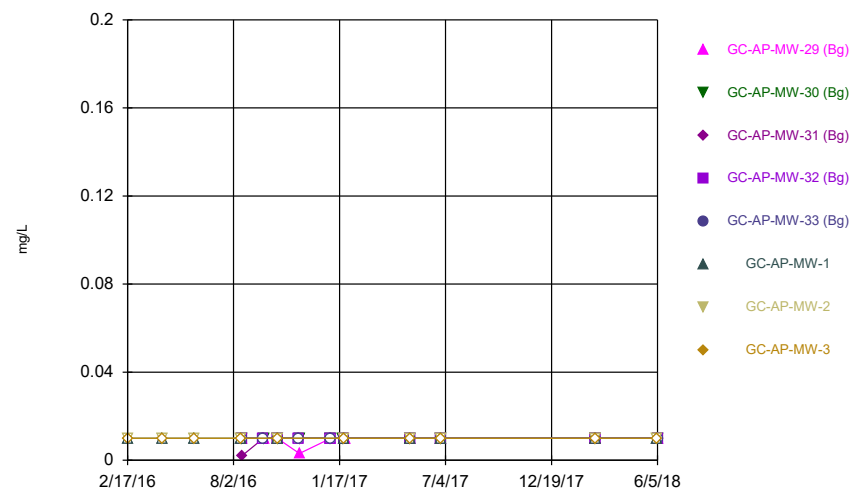
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Greene County Client: Southern Company Data: Greene County AP

Time Series



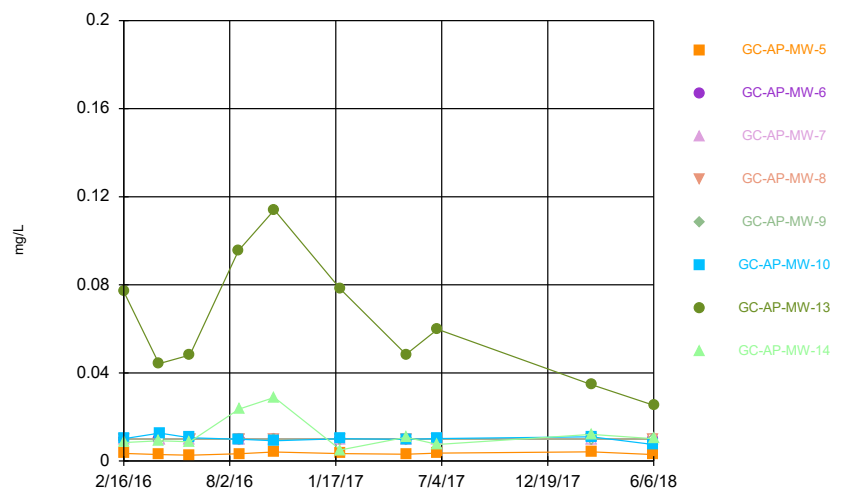
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Greene County Client: Southern Company Data: Greene County AP

Time Series



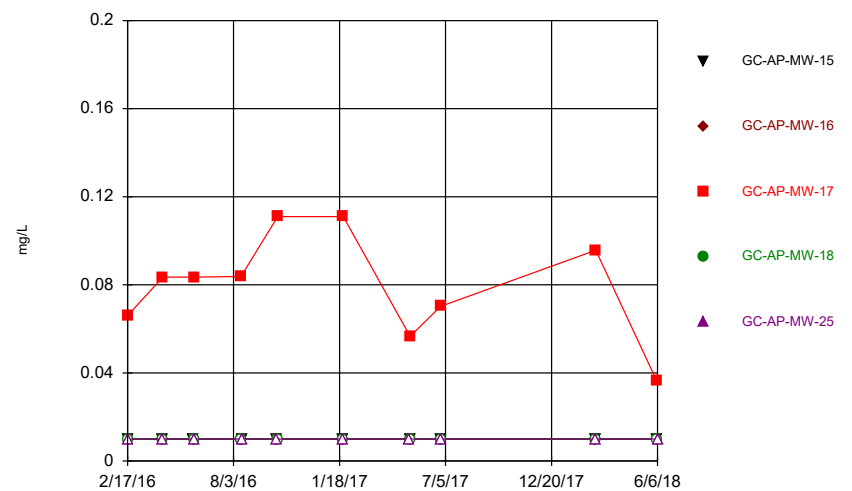
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Greene County Client: Southern Company Data: Greene County AP

Time Series



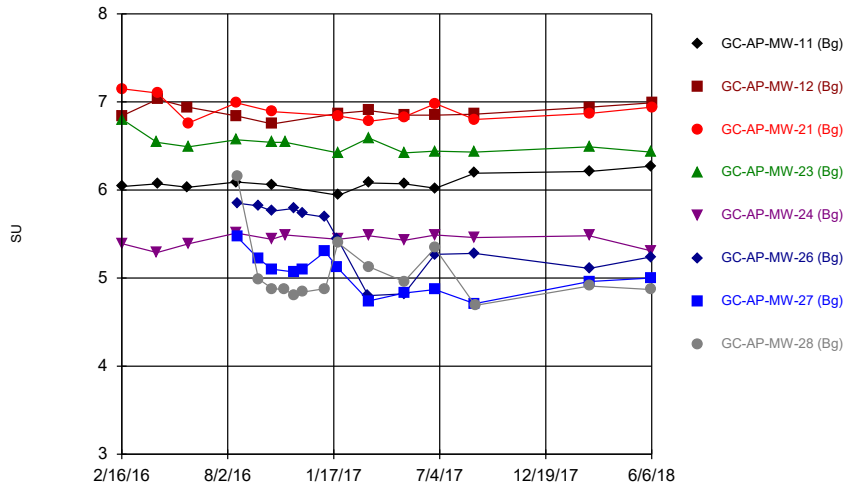
Constituent: Molybdenum Analysis Run 9/17/2018 2:32 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



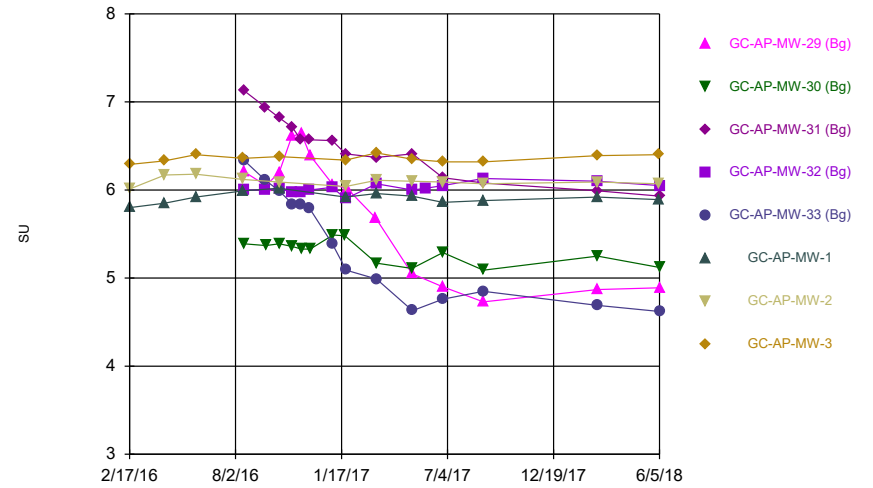
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Greene County Client: Southern Company Data: Greene County AP

Time Series



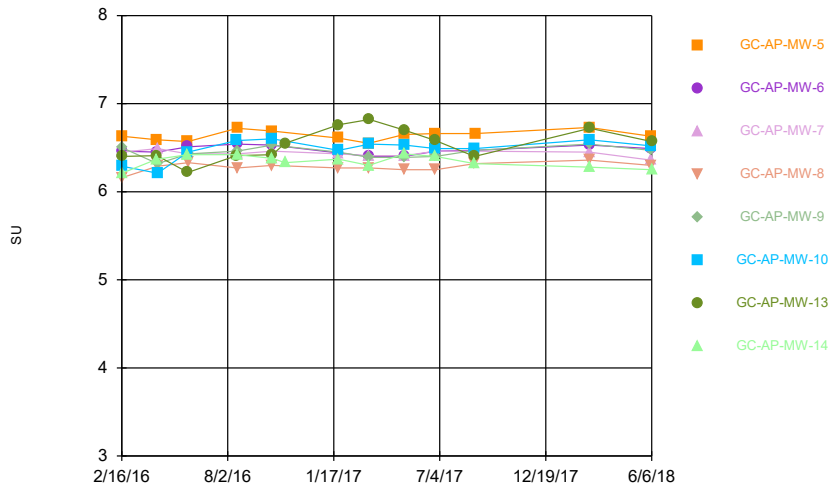
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Greene County Client: Southern Company Data: Greene County AP

Time Series



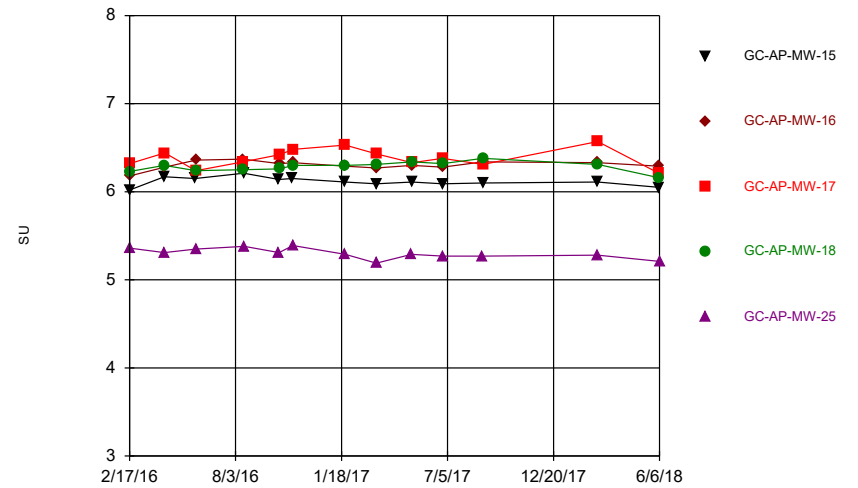
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Greene County Client: Southern Company Data: Greene County AP

Time Series



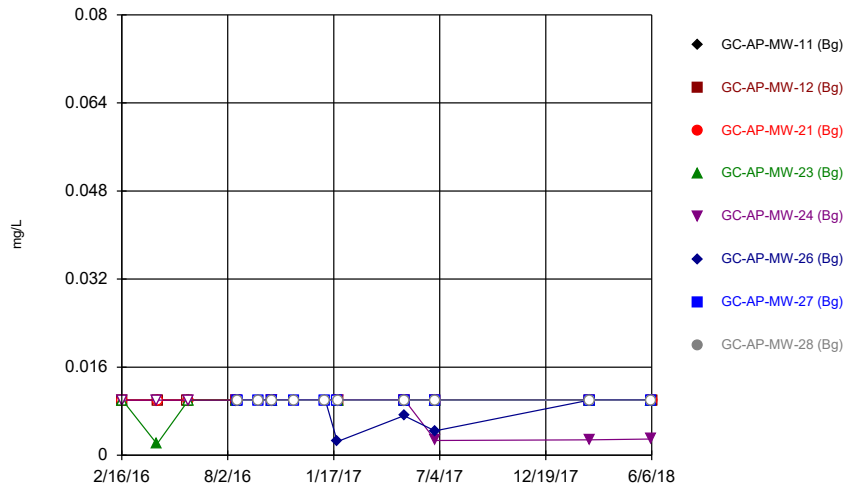
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Greene County Client: Southern Company Data: Greene County AP

Time Series



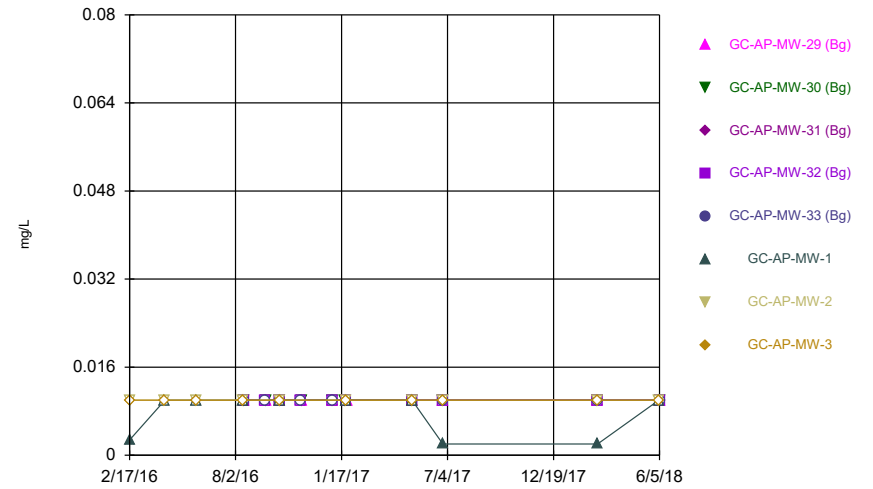
Constituent: pH Analysis Run 9/17/2018 2:33 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



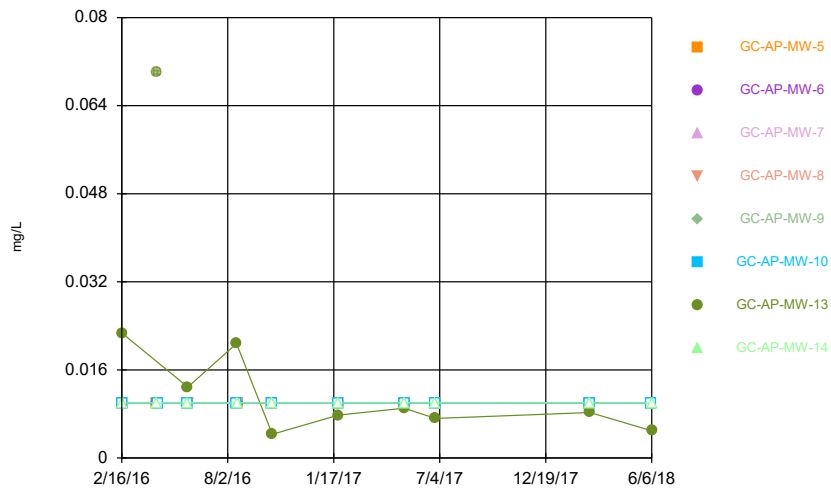
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Greene County Client: Southern Company Data: Greene County AP

Time Series



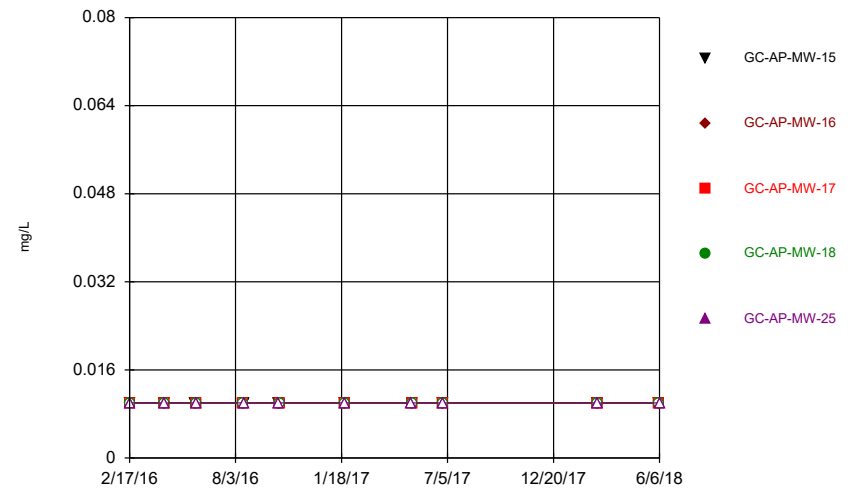
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Greene County Client: Southern Company Data: Greene County AP

Time Series



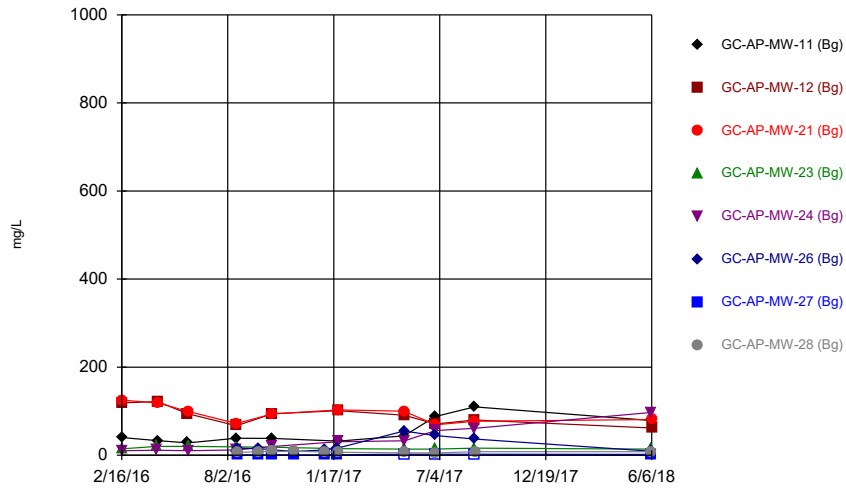
Constituent: Selenium Analysis Run 9/17/2018 2:33 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



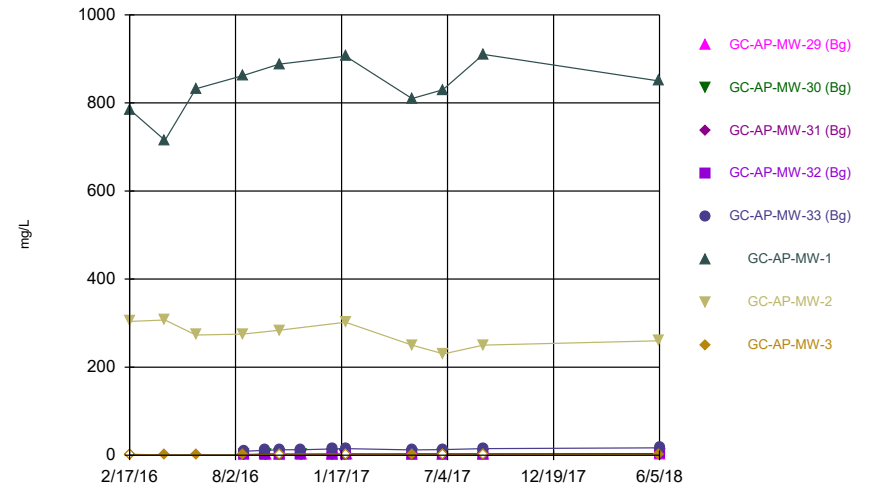
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Greene County Client: Southern Company Data: Greene County AP

Time Series



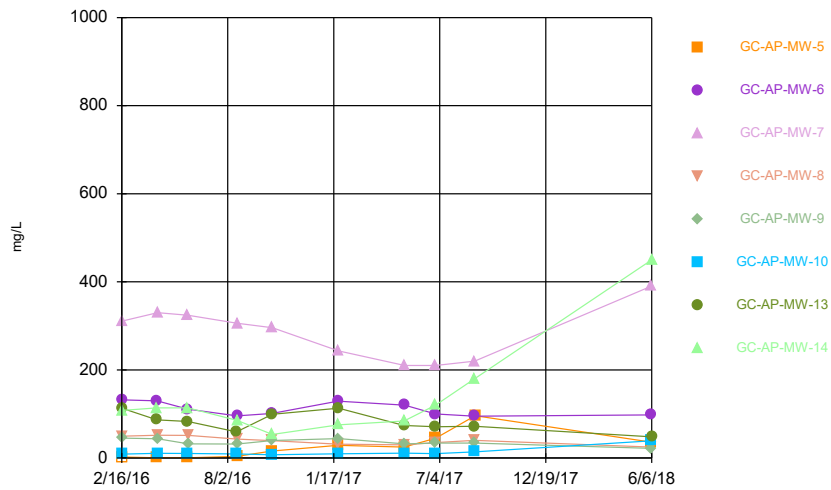
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Greene County Client: Southern Company Data: Greene County AP

Time Series



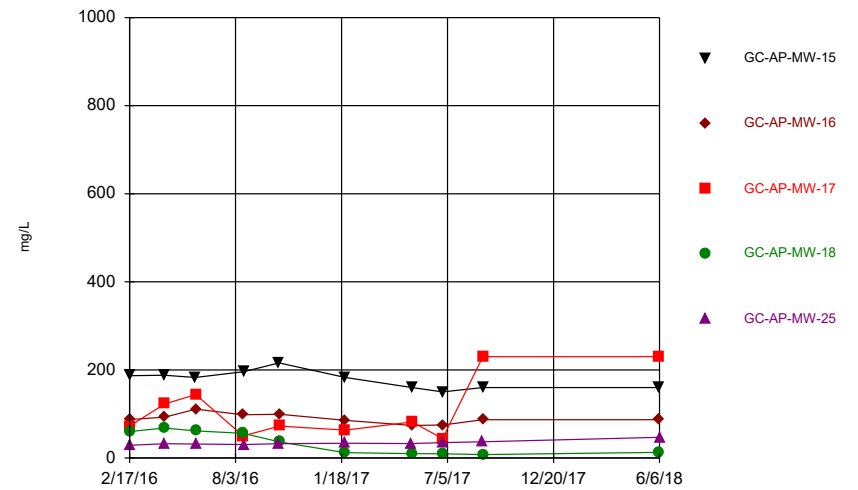
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Greene County Client: Southern Company Data: Greene County AP

Time Series



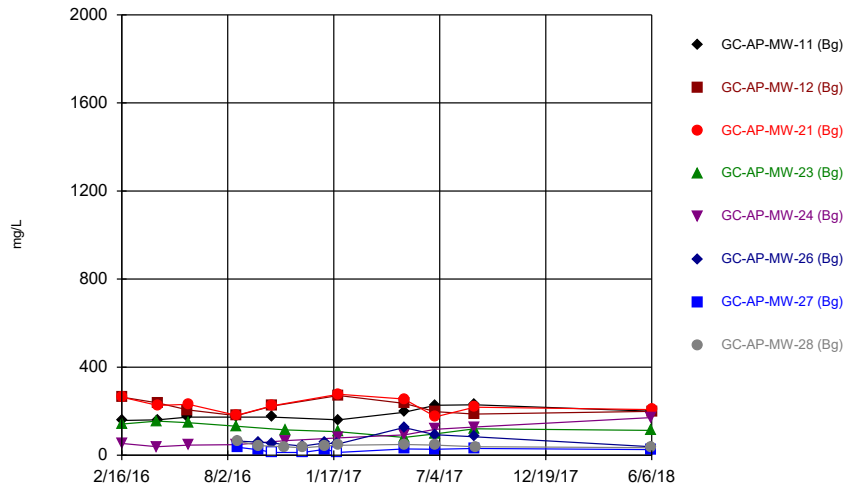
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Greene County Client: Southern Company Data: Greene County AP

Time Series



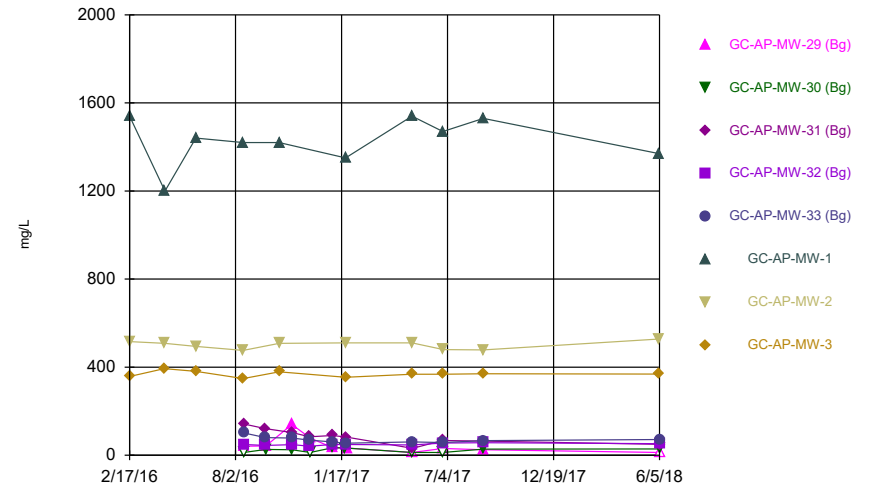
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Greene County Client: Southern Company Data: Greene County AP

Time Series



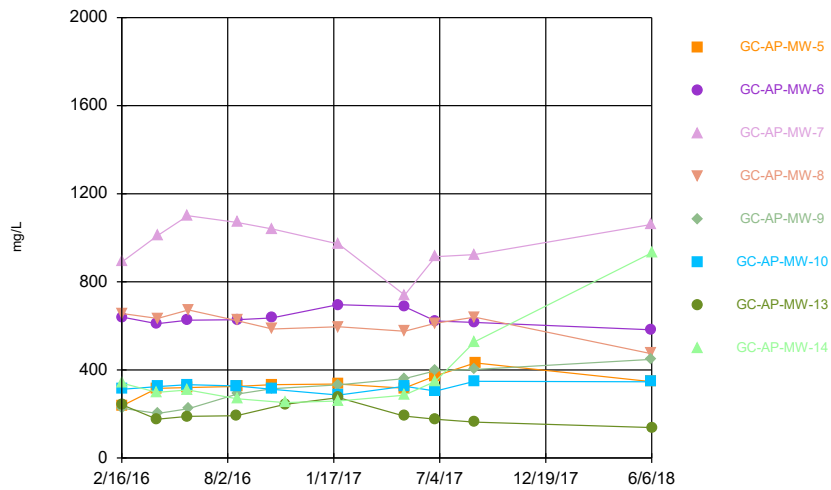
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Greene County Client: Southern Company Data: Greene County AP

Time Series



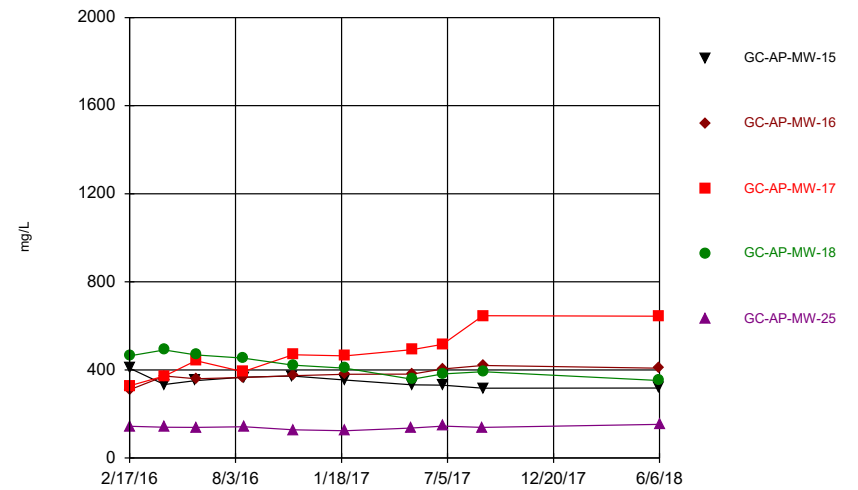
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Greene County Client: Southern Company Data: Greene County AP

Time Series



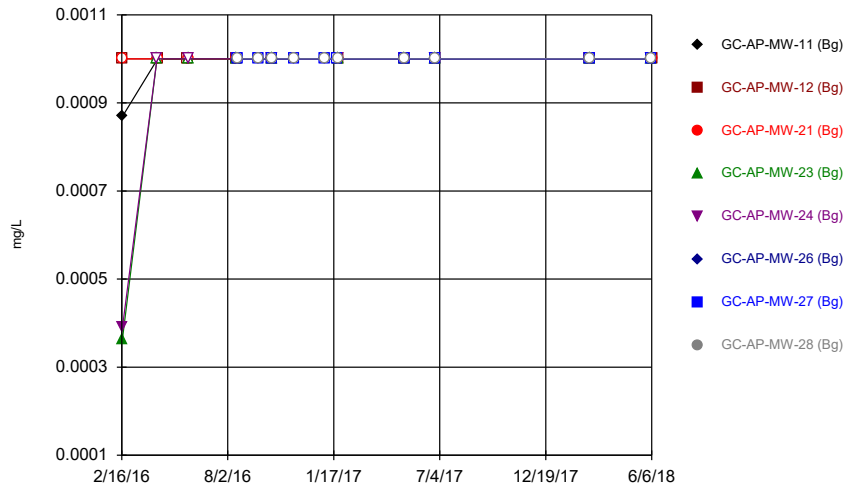
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Greene County Client: Southern Company Data: Greene County AP

Time Series



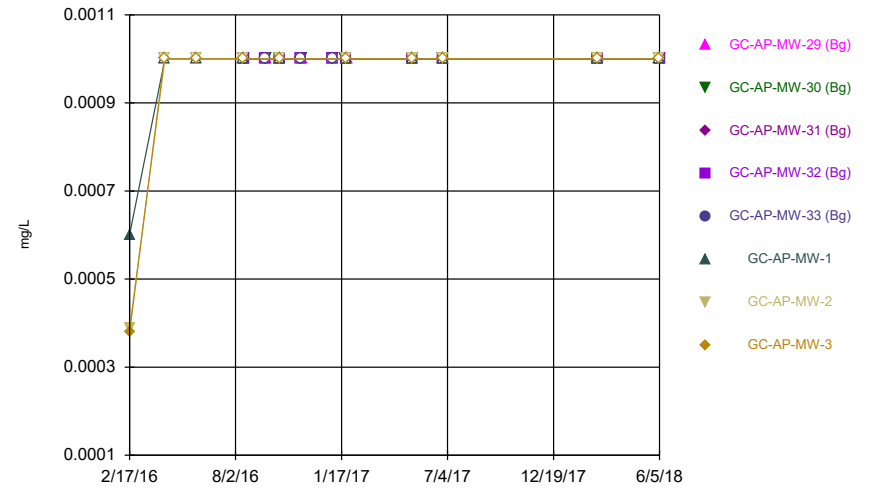
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Greene County Client: Southern Company Data: Greene County AP

Time Series



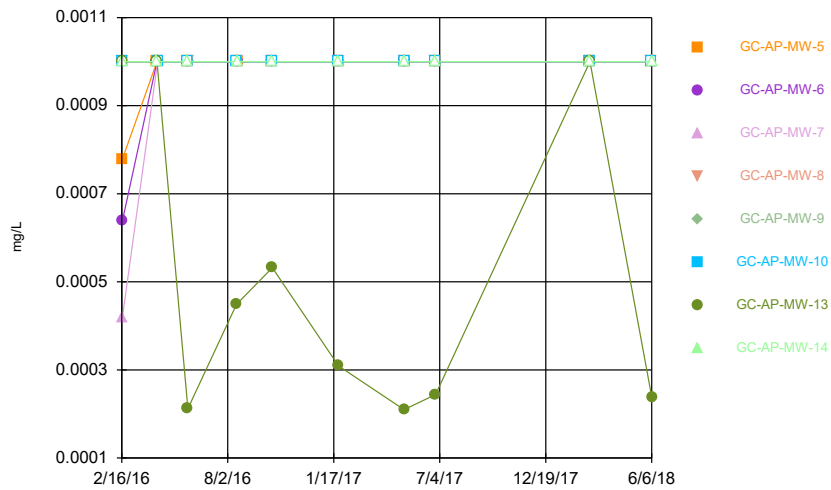
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Greene County Client: Southern Company Data: Greene County AP

Time Series



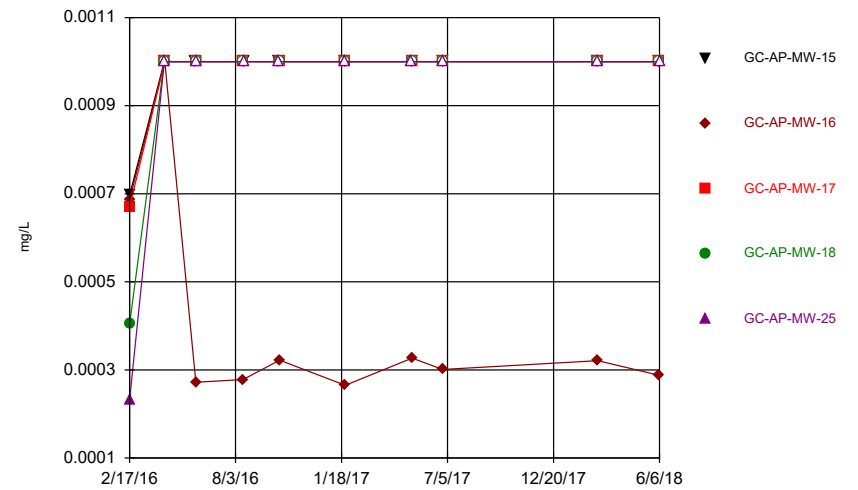
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Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 9/17/2018 2:33 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 9/17/2018 2:33 PM View: Descriptive
Greene County Client: Southern Company Data: Greene County AP

Upper Tolerance Limits - App IV

Greene County Client: Southern Company Data: Greene County AP Printed 11/13/2018, 6:36 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	130	n/a	n/a	85.38	n/a	n/a	0.001271	NP Inter(NDs)
Arsenic (mg/L)	0.00819	130	n/a	n/a	79.23	n/a	n/a	0.001271	NP Inter(NDs)
Barium (mg/L)	0.1976	130	-3.133	0.8015	0	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.003	130	n/a	n/a	92.31	n/a	n/a	0.001271	NP Inter(NDs)
Boron (mg/L)	0.615	130	n/a	n/a	66.15	n/a	n/a	0.001271	NP Inter(normal...)
Cadmium (mg/L)	0.001	130	n/a	n/a	86.92	n/a	n/a	0.001271	NP Inter(NDs)
Chromium (mg/L)	0.01	130	n/a	n/a	100	n/a	n/a	0.001271	NP Inter(NDs)
Cobalt (mg/L)	0.0664	130	n/a	n/a	57.69	n/a	n/a	0.001271	NP Inter(normal...)
Combined Radium 226 + 228 (pCi/L)	1.89	130	n/a	n/a	7.692	n/a	n/a	0.001271	NP Inter(normal...)
Fluoride (mg/L)	0.31	143	n/a	n/a	39.16	n/a	n/a	0.0006523	NP Inter(normal...)
Lead (mg/L)	0.005	130	n/a	n/a	100	n/a	n/a	0.001271	NP Inter(NDs)
Lithium (mg/L)	0.544	130	n/a	n/a	76.92	n/a	n/a	0.001271	NP Inter(NDs)
Mercury (mg/L)	0.0005	130	n/a	n/a	100	n/a	n/a	0.001271	NP Inter(NDs)
Molybdenum (mg/L)	0.127	130	n/a	n/a	75.38	n/a	n/a	0.001271	NP Inter(NDs)
Selenium (mg/L)	0.01	130	n/a	n/a	94.62	n/a	n/a	0.001271	NP Inter(NDs)
Thallium (mg/L)	0.001	130	n/a	n/a	97.69	n/a	n/a	0.001271	NP Inter(NDs)

Confidence Intervals - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 11/13/2018, 6:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.01908	0.01686	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4188	0.3524	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0146	0.0122	0.01	Yes	10	0	No	0.011	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.0307	0.01712	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.105	0.0472	0.01	Yes	10	0	No	0.011	NP (normality)
Arsenic (mg/L)	GC-AP-MW-17	0.4583	0.2337	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.1206	0.07112	0.01	Yes	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.7477	0.5721	0.544	Yes	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.7035	0.5777	0.544	Yes	10	0	No	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 11/13/2018, 6:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-1	0.0015	0.000799	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.0015	0.00084	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.0015	0.000906	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.0015	0.000728	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.0015	0.000792	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.0015	0.000839	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.0015	0.000833	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.0015	0.000847	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.0015	0.000786	0.006	No	10	80	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003227	0.001071	0.006	No	10	10	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.0015	0.00062	0.006	No	10	80	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.0015	0.00111	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.0015	0.000935	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.0015	0.000997	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.0015	0.000984	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.0015	0.00111	0.006	No	10	90	No	0.011	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-1	0.01908	0.01686	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-2	0.0139	0.009998	0.01	No	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.007963	0.007085	0.01	No	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4188	0.3524	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.0025	0.0025	0.01	No	10	100	No	0.011	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.0025	0.0025	0.01	No	10	100	No	0.011	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.0025	0.0025	0.01	No	10	100	No	0.011	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.008536	0.005942	0.01	No	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0146	0.0122	0.01	Yes	10	0	No	0.011	NP (normality)
Arsenic (mg/L)	GC-AP-MW-13	0.0141	0.00278	0.01	No	10	0	No	0.011	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.0307	0.01712	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.0025	0.0025	0.01	No	10	100	No	0.011	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-16	0.105	0.0472	0.01	Yes	10	0	No	0.011	NP (normality)
Arsenic (mg/L)	GC-AP-MW-17	0.4583	0.2337	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.1206	0.07112	0.01	Yes	10	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-25	0.0025	0.0025	0.01	No	10	100	No	0.011	NP (NDs)
Barium (mg/L)	GC-AP-MW-1	0.0418	0.03416	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.0322	0.0281	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1056	0.09454	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.4847	0.3293	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.0507	0.04248	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08334	0.06446	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1119	0.08881	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1049	0.06485	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.1774	0.1558	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1086	0.09044	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.07272	0.03958	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.02728	0.02246	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.04932	0.0372	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.1558	0.06572	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1346	0.1172	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.09558	0.08588	2	No	10	0	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-1	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-2	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-3	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-5	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-6	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-7	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-8	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-9	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-10	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-13	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-14	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-15	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-16	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-17	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-18	0.0015	0.0015	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-25	0.0015	0.000715	0.004	No	10	90	No	0.011	NP (NDs)
Boron (mg/L)	GC-AP-MW-1	0.2345	0.1885	4	No	10	0	x^2	0.01	Param.
Boron (mg/L)	GC-AP-MW-2	0.1354	0.1093	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-3	0.03653	0.02527	4	No	10	10	ln(x)	0.01	Param.
Boron (mg/L)	GC-AP-MW-5	0.4874	0.4432	4	No	10	0	x^2	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 11/13/2018, 6:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-6	2.013	1.643	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-7	0.5458	0.4722	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-8	1.805	1.539	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-9	0.7335	0.3855	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-10	1.39	1.057	4	No	10	0	x^3	0.01	Param.
Boron (mg/L)	GC-AP-MW-13	0.2991	0.1773	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-14	0.8657	0.5645	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-15	0.486	0.424	4	No	10	0	No	0.011	NP (normality)
Boron (mg/L)	GC-AP-MW-16	1.447	1.311	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-17	2.026	1.672	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-18	1.863	1.503	4	No	10	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-25	0.09713	0.08643	4	No	10	0	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-3	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-7	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-16	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-18	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.0005	0.0005	0.005	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-7	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.005	0.00219	0.1	No	10	80	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-1	0.06641	0.04779	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.01114	0.009137	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004544	0.003638	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-5	0.01876	0.006608	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.005	0.00202	0.066	No	10	60	No	0.011	NP (normality)
Cobalt (mg/L)	GC-AP-MW-7	0.005	0.00217	0.066	No	10	60	No	0.011	NP (normality)
Cobalt (mg/L)	GC-AP-MW-8	0.0139	0.00478	0.066	No	10	0	No	0.011	NP (normality)
Cobalt (mg/L)	GC-AP-MW-9	0.01272	0.009902	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.01533	0.01375	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.005	0.005	0.066	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.01252	0.004768	0.066	No	10	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01628	0.01416	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01472	0.0122	0.066	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.02667	0.01092	0.066	No	10	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.0225	0.0136	0.066	No	10	0	No	0.011	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.007281	0.006107	0.066	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.478	0.9794	5	No	10	10	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.5	0.334	5	No	10	20	No	0.011	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	2.355	0.5104	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	3.008	1.539	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.5	0.139	5	No	10	20	No	0.011	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.5	0.526	5	No	10	20	No	0.011	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	2.35	0.23	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	2.416	0.4118	5	No	10	20	No	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 11/13/2018, 6:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	2.331	0.2862	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	1.5	-0.0137	5	No	10	20	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	2.36	0.103	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	1.5	-0.365	5	No	10	20	No	0.011	NP (Cohens/xfm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	2.331	0.1389	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.475	0.6093	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	2.506	0.6187	5	No	10	20	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	2.231	-0.1403	5	No	10	20	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.0703	0.04425	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.09739	0.06752	4	No	11	9.091	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1083	0.07824	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-5	0.2355	0.2083	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2154	0.1746	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.09144	0.06547	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.1079	0.07642	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-9	0.1849	0.1529	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.256	0.2042	4	No	11	0	x^3	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1745	0.134	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.1453	0.1235	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1281	0.09423	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2563	0.1995	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.53	0.36	4	No	11	0	No	0.006	NP (normality)
Fluoride (mg/L)	GC-AP-MW-18	0.1854	0.1482	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.05	0.02	4	No	11	54.55	No	0.006	NP (normality)
Lead (mg/L)	GC-AP-MW-1	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.0025	0.00104	0.015	No	10	90	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-5	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-6	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-7	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-8	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-10	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-13	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-14	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-15	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-16	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-17	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-18	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lead (mg/L)	GC-AP-MW-25	0.0025	0.0025	0.015	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.025	0.0194	0.544	No	10	90	No	0.011	NP (NDs)
Lithium (mg/L)	GC-AP-MW-2	0.025	0.025	0.544	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GC-AP-MW-3	0.025	0.025	0.544	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GC-AP-MW-5	0.09997	0.08547	0.544	No	10	0	ln(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.0519	0.0201	0.544	No	10	50	No	0.011	NP (normality)
Lithium (mg/L)	GC-AP-MW-7	0.025	0.025	0.544	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GC-AP-MW-8	0.04841	0.01753	0.544	No	10	20	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.03965	0.03135	0.544	No	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.1238	0.1007	0.544	No	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4288	0.1167	0.544	No	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.7456	0.4482	0.544	No	10	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.7477	0.5721	0.544	Yes	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.5907	0.5199	0.544	No	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.7035	0.5777	0.544	Yes	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.6243	0.3903	0.544	No	10	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-25	0.025	0.025	0.544	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-1	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-2	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-3	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-5	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-6	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-7	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-8	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-9	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-10	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-13	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-14	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-15	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)

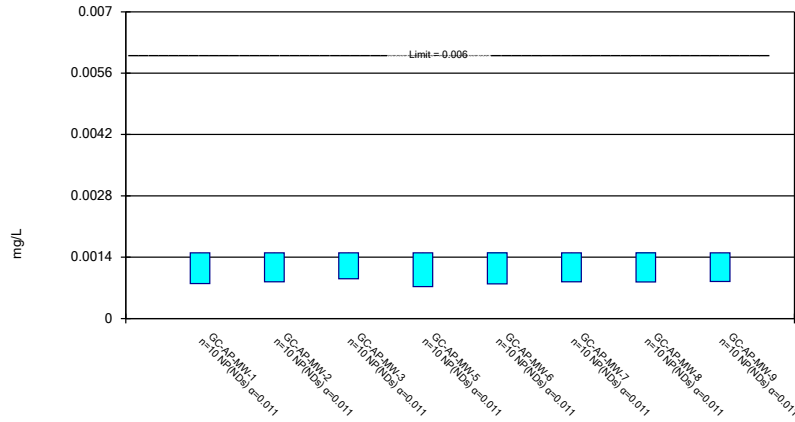
Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 11/13/2018, 6:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Mercury (mg/L)	GC-AP-MW-16	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-17	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-18	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GC-AP-MW-25	0.00025	0.00025	0.002	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-3	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003809	0.002911	0.127	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-9	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.01128	0.008948	0.127	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08756	0.03742	0.127	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01791	0.006608	0.127	No	10	0	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-15	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-16	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.1007	0.05882	0.127	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-25	0.005	0.005	0.127	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.005	0.00206	0.05	No	10	70	No	0.011	NP (normality)
Selenium (mg/L)	GC-AP-MW-2	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-5	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-6	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-7	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-8	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-9	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-10	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.01675	0.005094	0.05	No	9	0	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-14	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-15	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-16	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-17	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-18	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	GC-AP-MW-25	0.005	0.005	0.05	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.0005	0.000388	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.0005	0.00038	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.0005	0.00042	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.0005	0.00021	0.002	No	10	30	No	0.011	NP (normality)
Thallium (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.0005	0.000265	0.002	No	10	10	No	0.011	NP (normality)
Thallium (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.0005	0.000404	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.0005	0.000232	0.002	No	10	90	No	0.011	NP (NDs)

Non-Parametric Confidence Interval

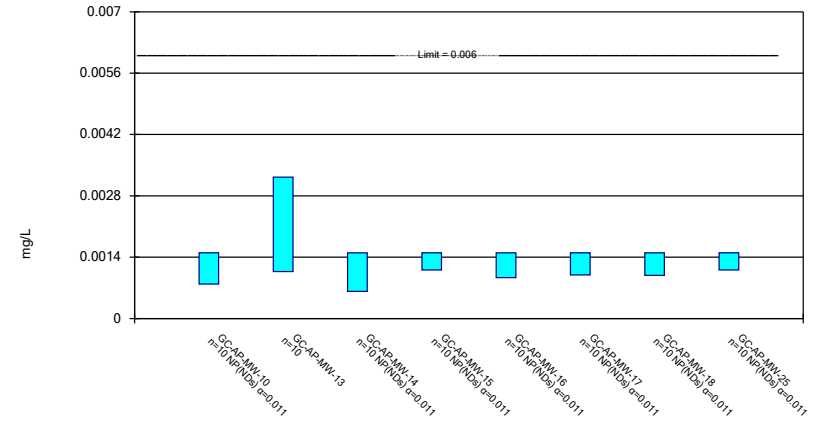
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

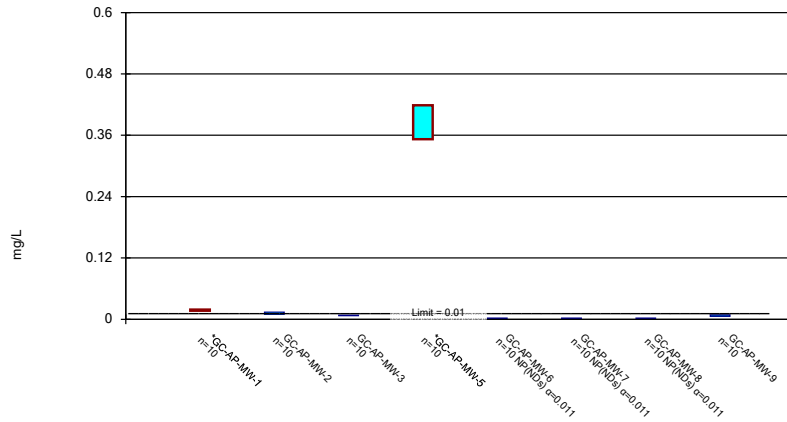
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

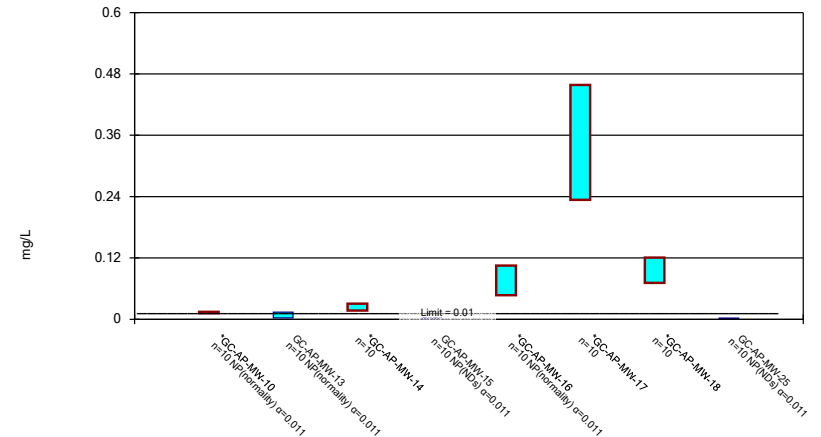
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

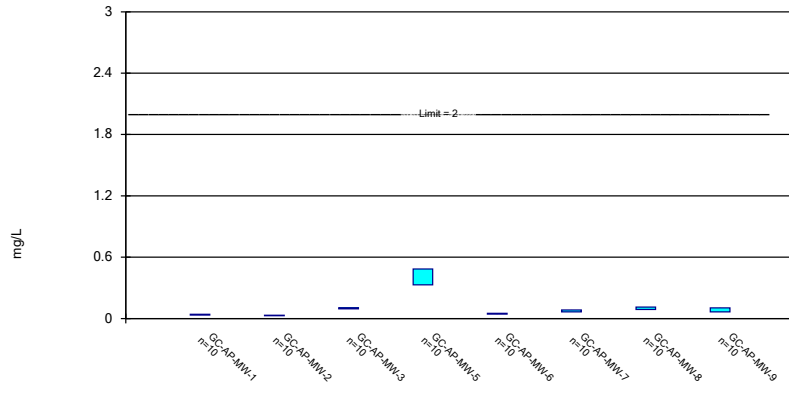
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

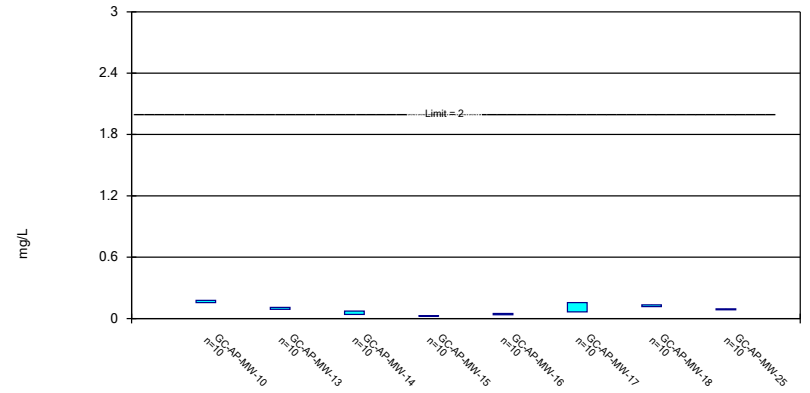
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

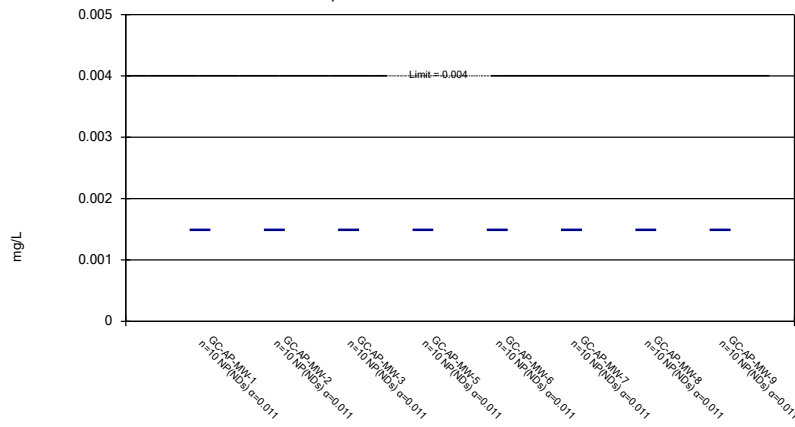
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

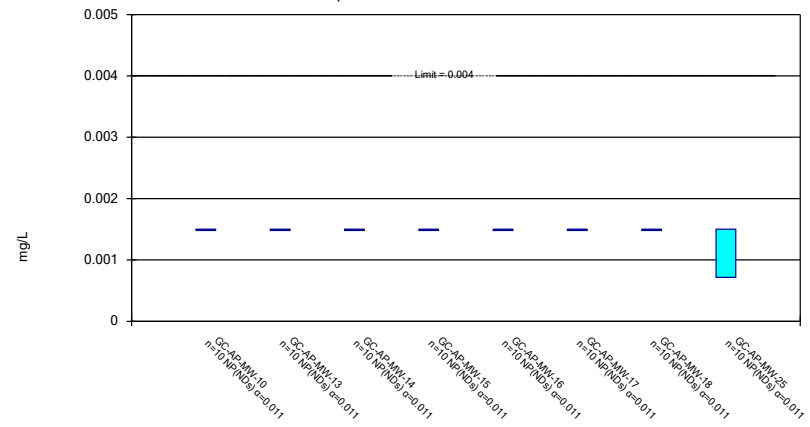
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

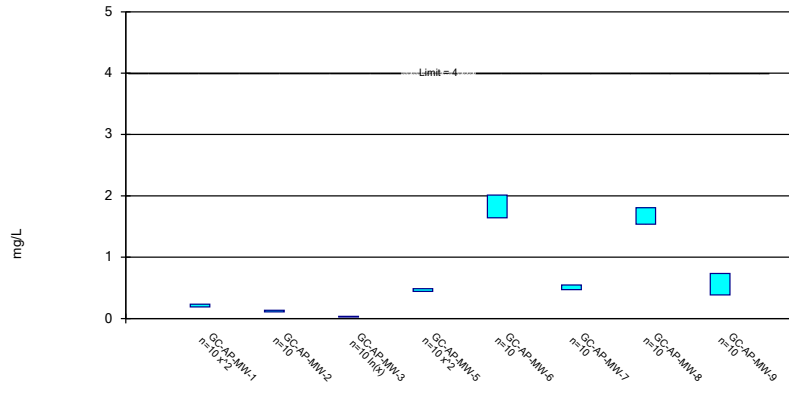
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

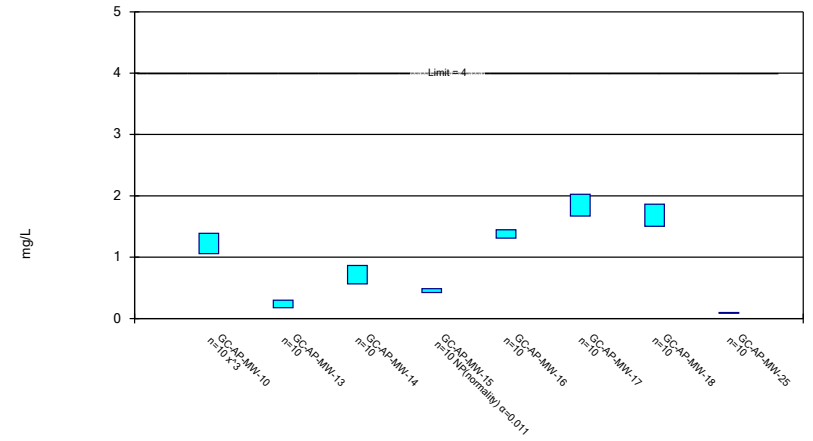
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Boron Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

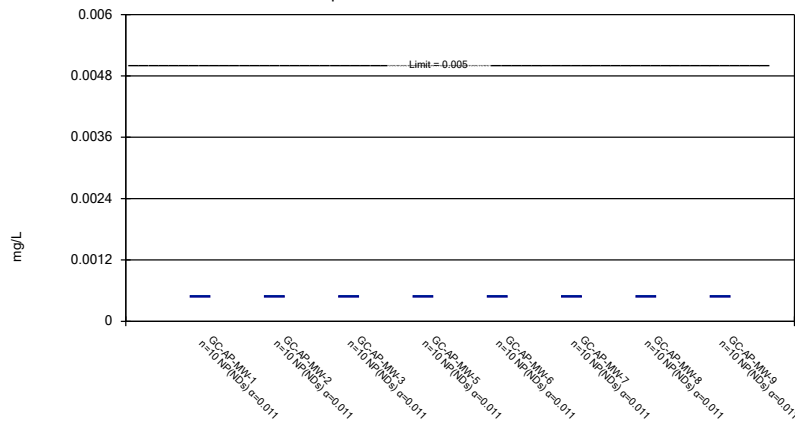
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Boron Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

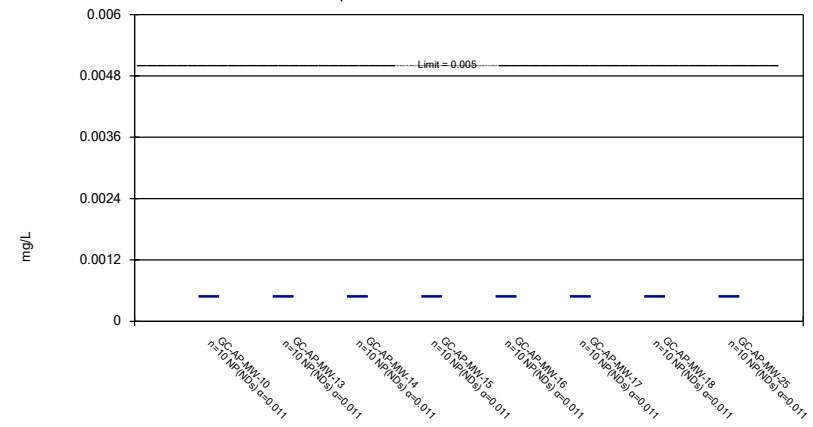
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

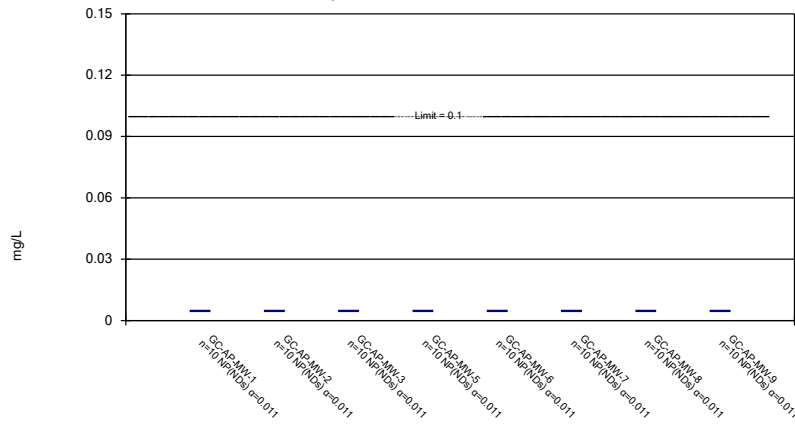
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

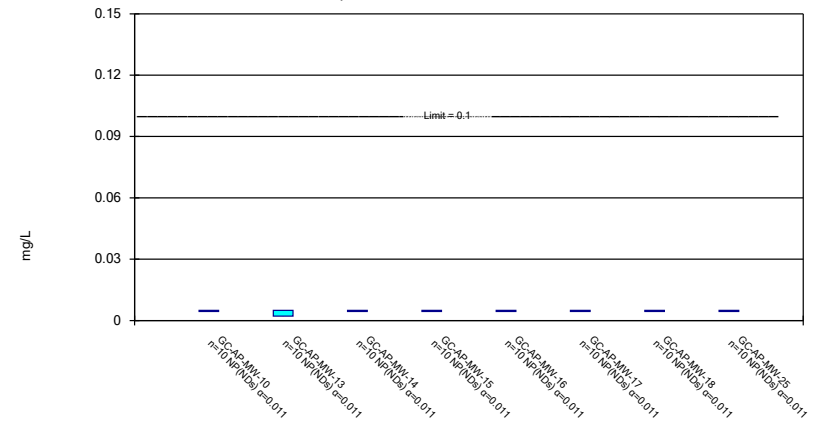
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

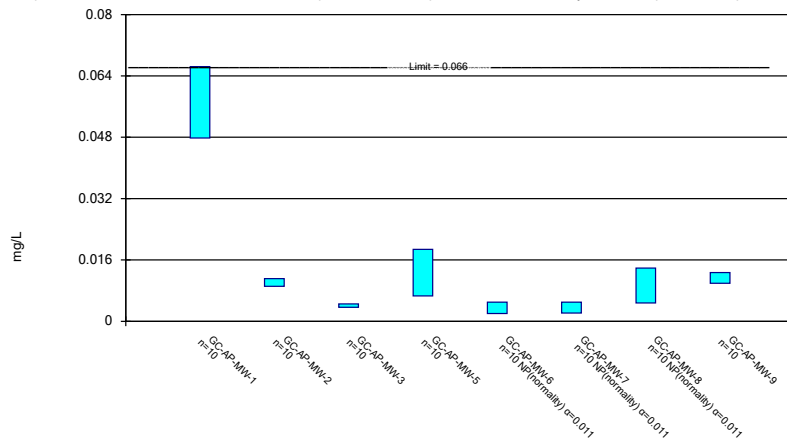
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

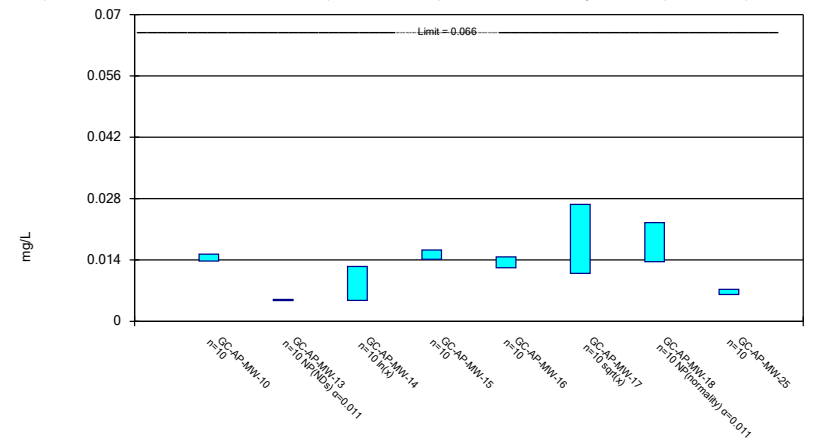
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

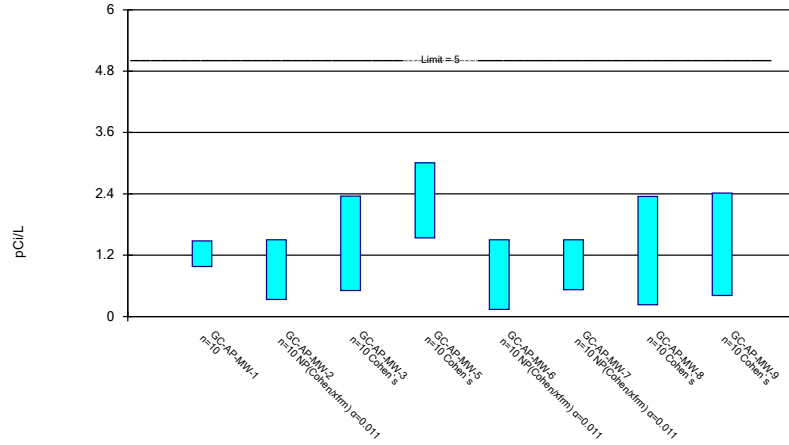
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

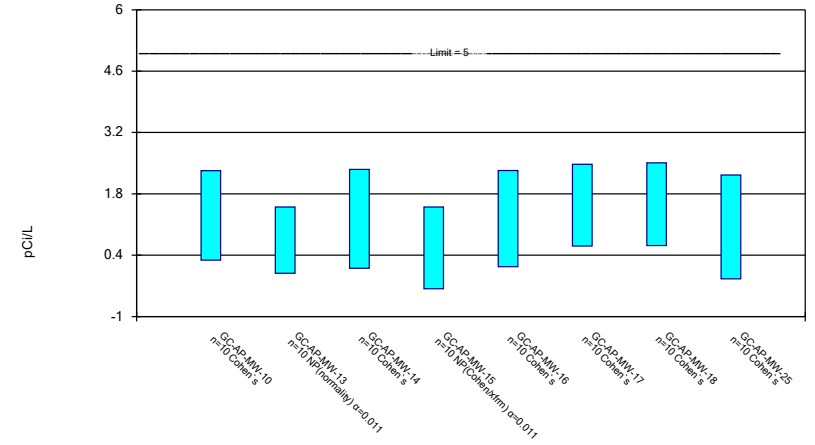
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

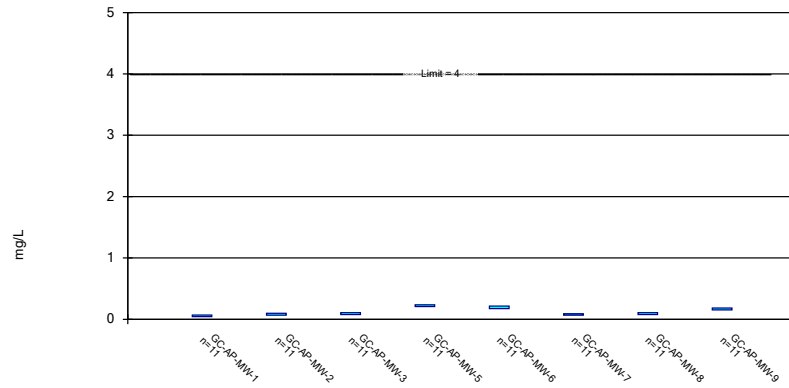
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

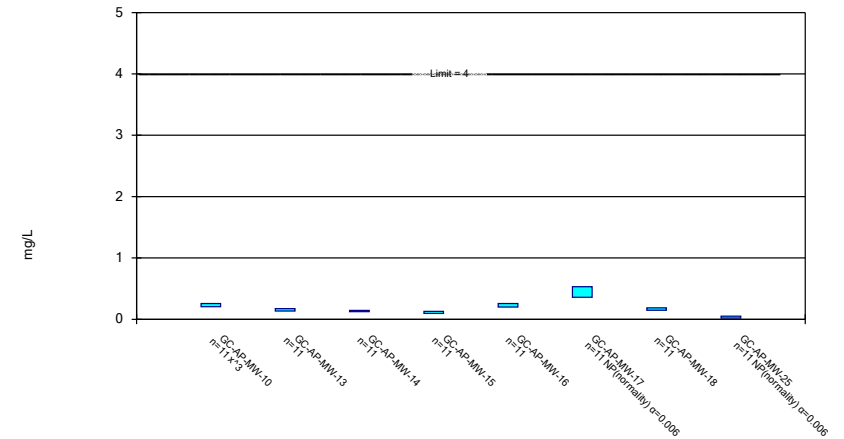
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/13/2018 6:38 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

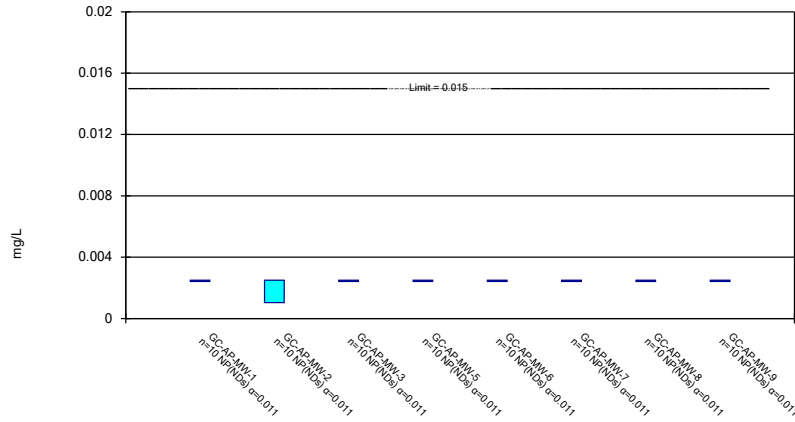
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

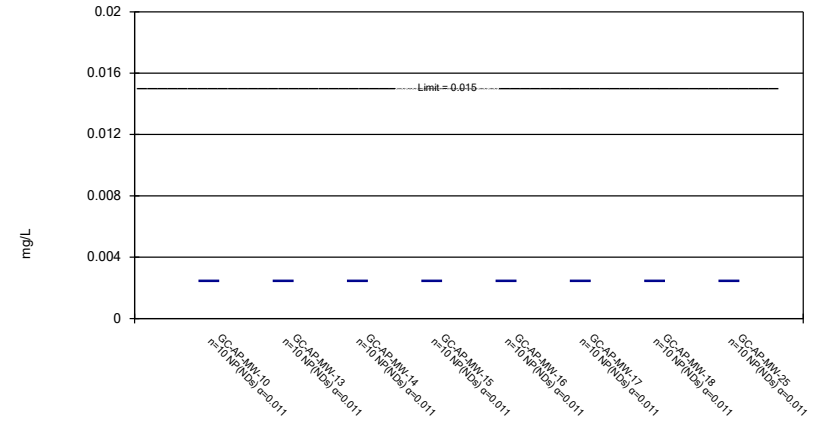
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

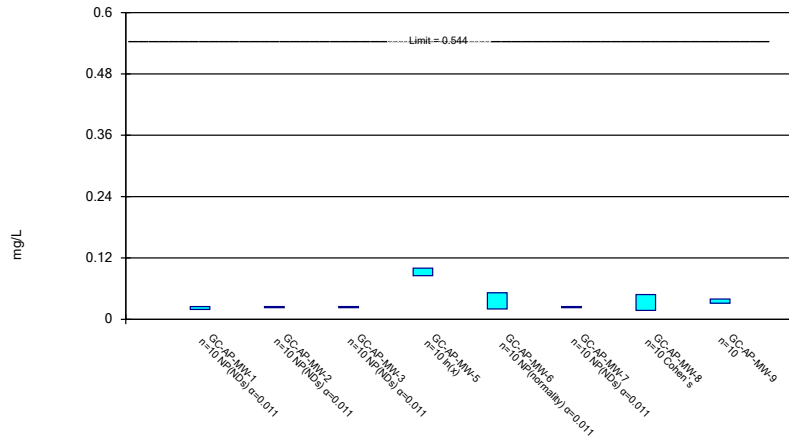
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

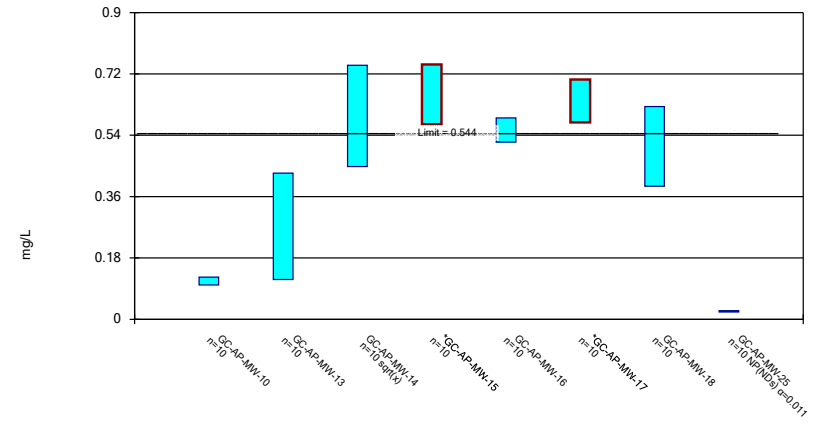
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

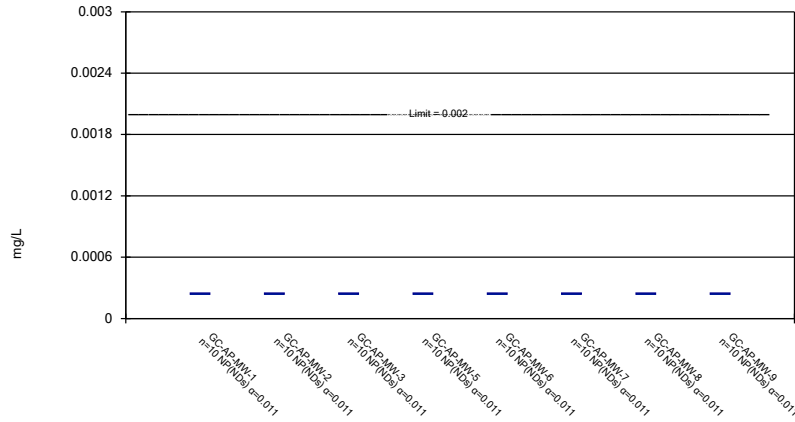
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

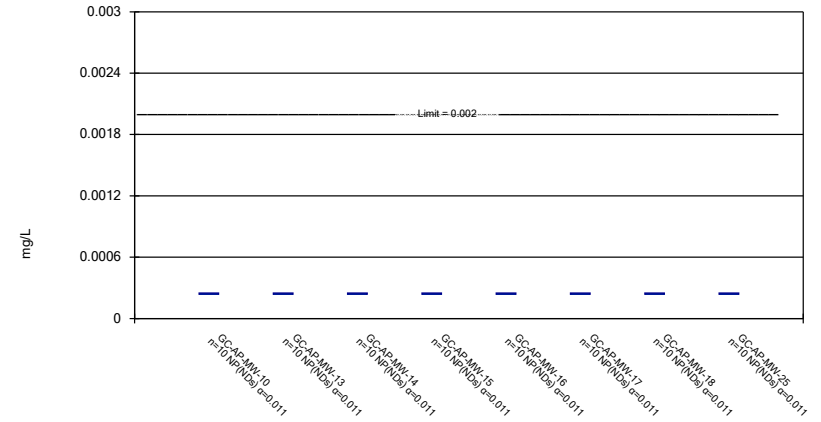
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

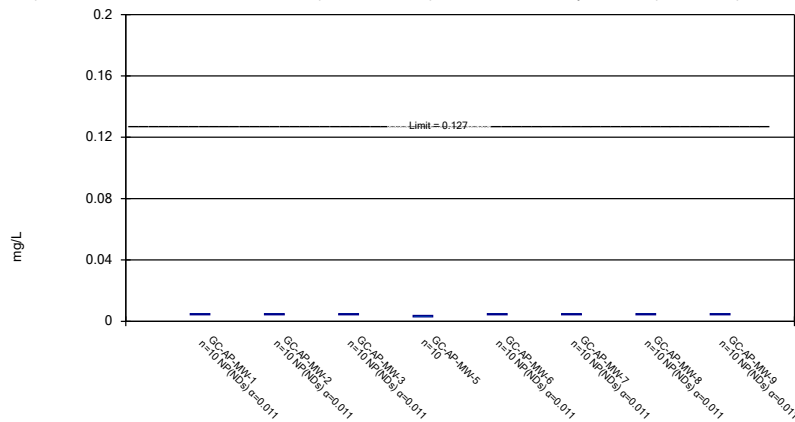
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

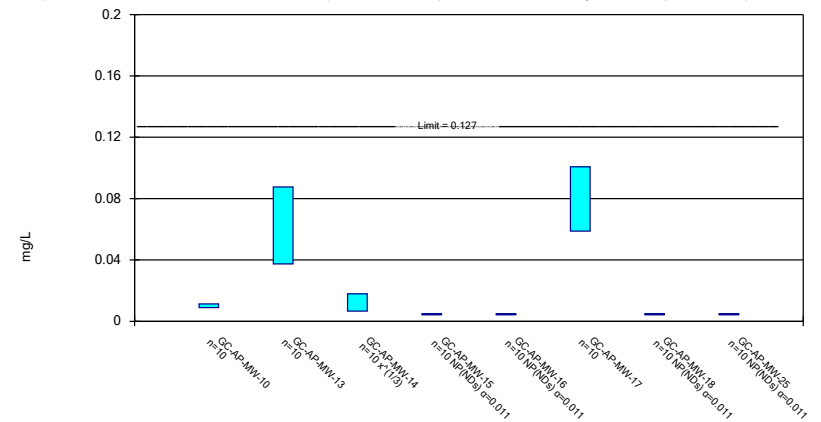
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

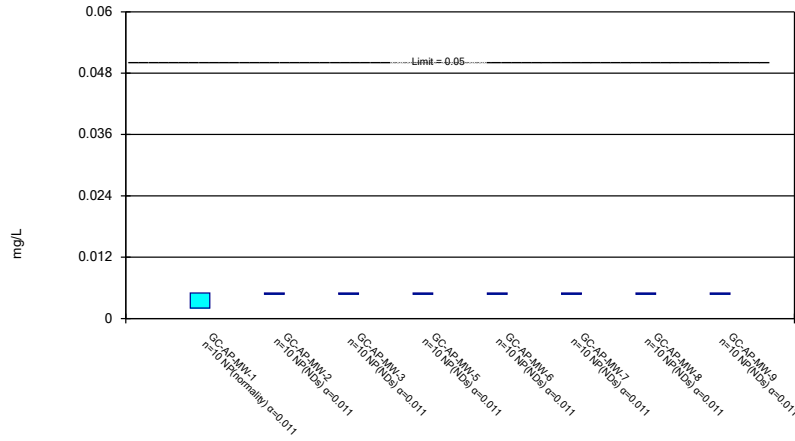
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

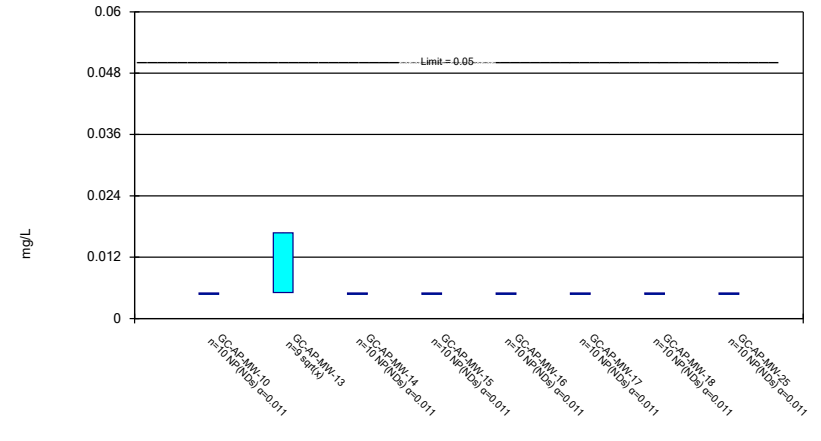
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

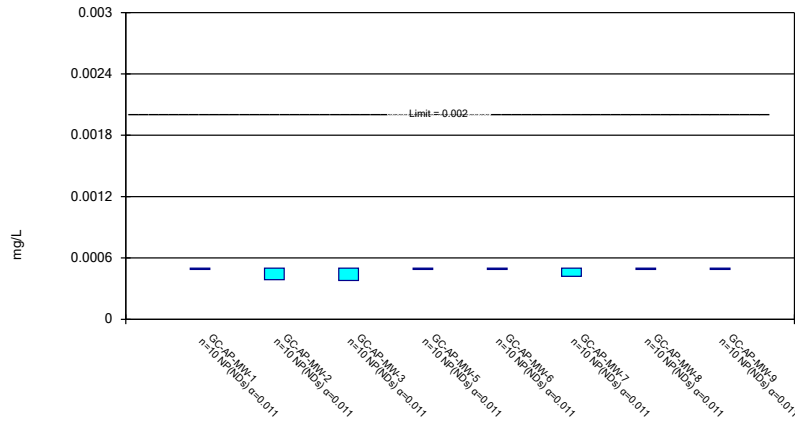
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

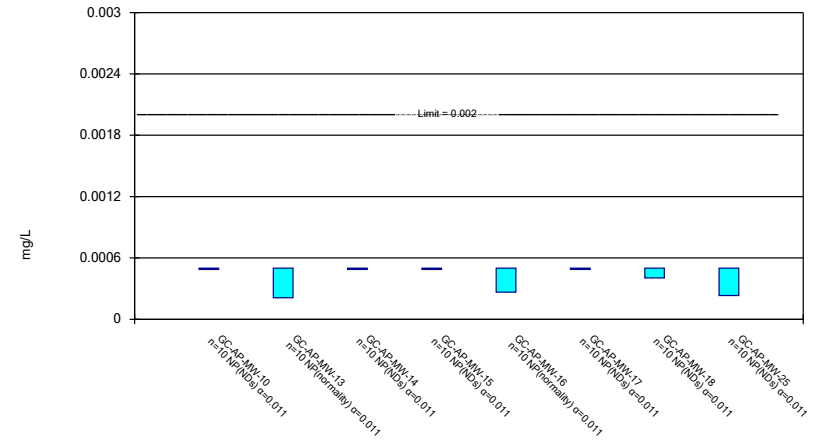
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 11/13/2018 6:39 AM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

2nd Semi-Annual

Interwell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 3:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GC-AP-MW-5	0.304	n/a	11/6/2018	0.508	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.304	n/a	11/7/2018	1.6	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.304	n/a	11/7/2018	0.677	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.304	n/a	11/7/2018	1.8	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.304	n/a	11/7/2018	1.11	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.304	n/a	11/7/2018	1.26	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.304	n/a	11/7/2018	0.908	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.304	n/a	11/6/2018	0.614	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.304	n/a	11/6/2018	1.47	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.304	n/a	11/6/2018	1.74	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.304	n/a	11/6/2018	1.48	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	11/6/2018	186	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	11/6/2018	75.1	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	11/6/2018	110	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	11/6/2018	78.9	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	11/7/2018	124	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	11/7/2018	175	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	11/7/2018	68.1	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	11/7/2018	107	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	11/7/2018	68.5	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	11/7/2018	105	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	11/6/2018	49.2	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	11/6/2018	77.4	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	11/6/2018	81.6	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	11/6/2018	72.7	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-3	24.7	n/a	11/6/2018	26	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-6	24.7	n/a	11/7/2018	30	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-7	24.7	n/a	11/7/2018	58	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-8	24.7	n/a	11/7/2018	41	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-9	24.7	n/a	11/7/2018	25	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-18	24.7	n/a	11/6/2018	26	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-17	0.31	n/a	11/6/2018	0.45	Yes	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	257.3	n/a	11/6/2018	880	Yes	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	257.3	n/a	11/6/2018	280	Yes	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	257.3	n/a	11/7/2018	390	Yes	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-1	343.2	n/a	11/6/2018	1450	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-2	343.2	n/a	11/6/2018	522	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-3	343.2	n/a	11/6/2018	354	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-5	343.2	n/a	11/6/2018	409	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-6	343.2	n/a	11/7/2018	576	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-7	343.2	n/a	11/7/2018	1050	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-8	343.2	n/a	11/7/2018	514	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-9	343.2	n/a	11/7/2018	506	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-14	343.2	n/a	11/7/2018	528	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-16	343.2	n/a	11/6/2018	447	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-17	343.2	n/a	11/6/2018	634	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-18	343.2	n/a	11/6/2018	368	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-11	0.304	n/a	11/5/2018	0.262	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.304	n/a	11/5/2018	0.127	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.304	n/a	11/6/2018	0.1ND	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.304	n/a	11/5/2018	0.1ND	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.304	n/a	11/6/2018	0.1ND	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-1	0.304	n/a	11/6/2018	0.247	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.304	n/a	11/6/2018	0.131	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.304	n/a	11/6/2018	0.1ND	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.304	n/a	11/6/2018	0.508	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.304	n/a	11/7/2018	1.6	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.304	n/a	11/7/2018	0.677	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.304	n/a	11/7/2018	1.8	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.304	n/a	11/7/2018	1.11	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.304	n/a	11/7/2018	1.26	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.304	n/a	11/5/2018	0.104	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.304	n/a	11/7/2018	0.908	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.304	n/a	11/6/2018	0.614	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.304	n/a	11/6/2018	1.47	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.304	n/a	11/6/2018	1.74	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.304	n/a	11/6/2018	1.48	Yes	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.304	n/a	11/6/2018	0.1ND	No	88	78.41	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.7	n/a	11/5/2018	24.1	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-12	42.7	n/a	11/5/2018	28.8	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-31	42.7	n/a	11/6/2018	7.39	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-32	42.7	n/a	11/5/2018	10.5	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-33	42.7	n/a	11/6/2018	2.42	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	11/6/2018	186	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	11/6/2018	75.1	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	11/6/2018	110	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	11/6/2018	78.9	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	11/7/2018	124	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	11/7/2018	175	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	11/7/2018	68.1	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	11/7/2018	107	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	11/7/2018	68.5	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-13	42.7	n/a	11/5/2018	29.4	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	11/7/2018	105	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	11/6/2018	49.2	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	11/6/2018	77.4	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	11/6/2018	81.6	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	11/6/2018	72.7	Yes	88	1.136	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-25	42.7	n/a	11/6/2018	9.21	No	88	1.136	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-11	24.7	n/a	11/5/2018	13	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-12	24.7	n/a	11/5/2018	17	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-31	24.7	n/a	11/6/2018	5.1	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-32	24.7	n/a	11/5/2018	3.9	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-33	24.7	n/a	11/6/2018	4.5	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-1	24.7	n/a	11/6/2018	17	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-2	24.7	n/a	11/6/2018	17	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-3	24.7	n/a	11/6/2018	26	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-5	24.7	n/a	11/6/2018	13	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-6	24.7	n/a	11/7/2018	30	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-7	24.7	n/a	11/7/2018	58	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-8	24.7	n/a	11/7/2018	41	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-9	24.7	n/a	11/7/2018	25	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-10	24.7	n/a	11/7/2018	19	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-13	24.7	n/a	11/5/2018	18	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-14	24.7	n/a	11/7/2018	15	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-15	24.7	n/a	11/6/2018	14	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-16	24.7	n/a	11/6/2018	15	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-17	24.7	n/a	11/6/2018	11	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-18	24.7	n/a	11/6/2018	26	Yes	88	12.5	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-25	24.7	n/a	11/6/2018	21	No	88	12.5	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-11	0.31	n/a	11/5/2018	0.15	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.31	n/a	11/5/2018	0.2	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.31	n/a	11/6/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.31	n/a	11/5/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.31	n/a	11/6/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.31	n/a	11/6/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.31	n/a	11/6/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.31	n/a	11/6/2018	0.1	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.31	n/a	11/6/2018	0.22	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.31	n/a	11/7/2018	0.22	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.31	n/a	11/7/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.31	n/a	11/7/2018	0.11	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.31	n/a	11/7/2018	0.2	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.31	n/a	11/7/2018	0.25	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.31	n/a	11/5/2018	0.15	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.31	n/a	11/7/2018	0.19	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.31	n/a	11/6/2018	0.12	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.31	n/a	11/6/2018	0.24	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.31	n/a	11/6/2018	0.45	Yes	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.31	n/a	11/6/2018	0.17	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.31	n/a	11/6/2018	0.1ND	No	96	52.08	n/a	0.000...	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	257.3	n/a	11/5/2018	81	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	257.3	n/a	11/5/2018	74	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	257.3	n/a	11/6/2018	5ND	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	257.3	n/a	11/5/2018	5ND	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	257.3	n/a	11/6/2018	15	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	257.3	n/a	11/6/2018	880	Yes	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	257.3	n/a	11/6/2018	280	Yes	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	257.3	n/a	11/6/2018	5ND	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	257.3	n/a	11/6/2018	93	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	257.3	n/a	11/7/2018	97	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	257.3	n/a	11/7/2018	390	Yes	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	257.3	n/a	11/7/2018	30	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	257.3	n/a	11/7/2018	76	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	257.3	n/a	11/7/2018	45	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	257.3	n/a	11/5/2018	81	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	257.3	n/a	11/7/2018	180	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2

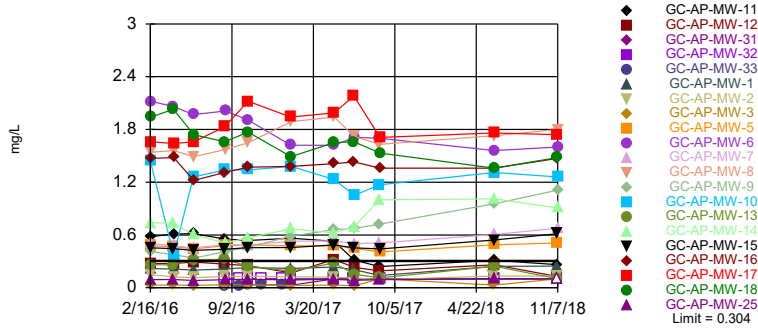
Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 3:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate (mg/L)	GC-AP-MW-15	257.3	n/a	11/6/2018	160	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	257.3	n/a	11/6/2018	97	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	257.3	n/a	11/6/2018	220	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	257.3	n/a	11/6/2018	11	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	257.3	n/a	11/6/2018	48	No	88	22.73	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-11	343.2	n/a	11/5/2018	193	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-12	343.2	n/a	11/5/2018	210	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-31	343.2	n/a	11/6/2018	66	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-32	343.2	n/a	11/5/2018	53.3	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-33	343.2	n/a	11/6/2018	61.3	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-1	343.2	n/a	11/6/2018	1450	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-2	343.2	n/a	11/6/2018	522	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-3	343.2	n/a	11/6/2018	354	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-5	343.2	n/a	11/6/2018	409	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-6	343.2	n/a	11/7/2018	576	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-7	343.2	n/a	11/7/2018	1050	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-8	343.2	n/a	11/7/2018	514	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-9	343.2	n/a	11/7/2018	506	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-10	343.2	n/a	11/7/2018	342	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-13	343.2	n/a	11/5/2018	208	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-14	343.2	n/a	11/7/2018	528	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-15	343.2	n/a	11/6/2018	331	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-16	343.2	n/a	11/6/2018	447	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-17	343.2	n/a	11/6/2018	634	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-18	343.2	n/a	11/6/2018	368	Yes	88	12.5	ln(x)	0.000...	Param Inter 1 of 2
TDS (mg/L)	GC-AP-MW-25	343.2	n/a	11/6/2018	153	No	88	12.5	ln(x)	0.000...	Param Inter 1 of 2

Exceeds Limit: GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW

Prediction Limit
Interwell Non-parametric

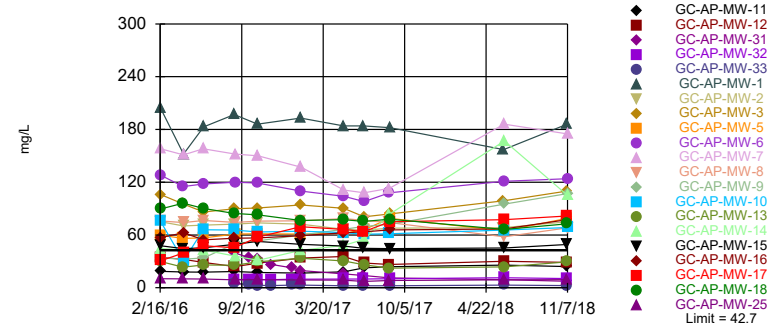


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 78.41% NDs. Annual per-constituent alpha = 0.007866. Individual comparison alpha = 0.0002468 (1 of 2). Comparing 21 points to limit.

Constituent: Boron Analysis Run 1/10/2019 3:55 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW

Prediction Limit
Interwell Non-parametric

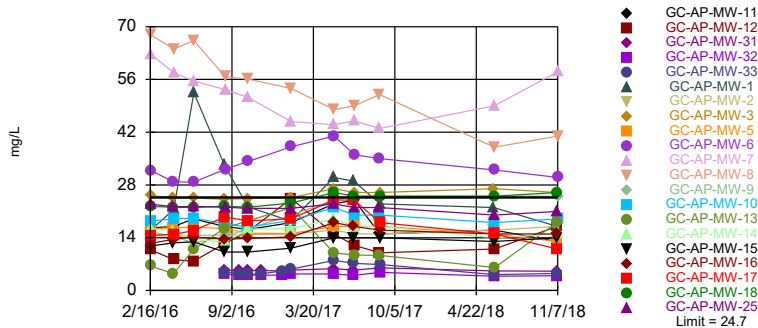


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 1.136% NDs. Annual per-constituent alpha = 0.007866. Individual comparison alpha = 0.0002468 (1 of 2). Comparing 21 points to limit.

Constituent: Calcium Analysis Run 1/10/2019 3:55 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-3, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW

Prediction Limit
Interwell Non-parametric

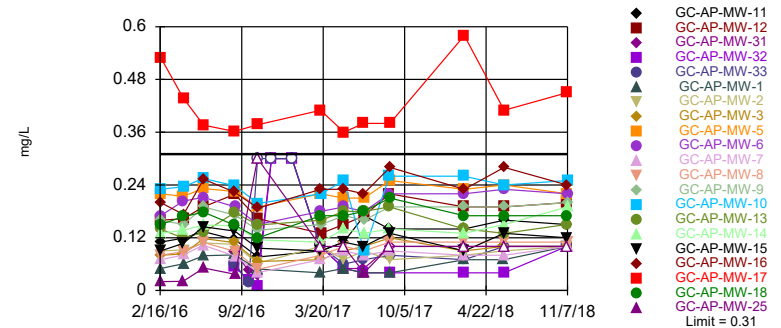


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 12.5% NDs. Annual per-constituent alpha = 0.007866. Individual comparison alpha = 0.0002468 (1 of 2). Comparing 21 points to limit.

Constituent: Chloride Analysis Run 1/10/2019 3:55 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-17

Prediction Limit
Interwell Non-parametric

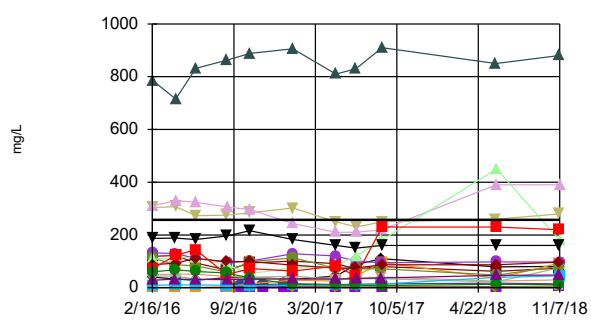


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 96 background values. 52.08% NDs. Annual per-constituent alpha = 0.006658. Individual comparison alpha = 0.0002088 (1 of 2). Comparing 21 points to limit.

Constituent: Fluoride Analysis Run 1/10/2019 3:56 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-7

Prediction Limit
Interwell Parametric



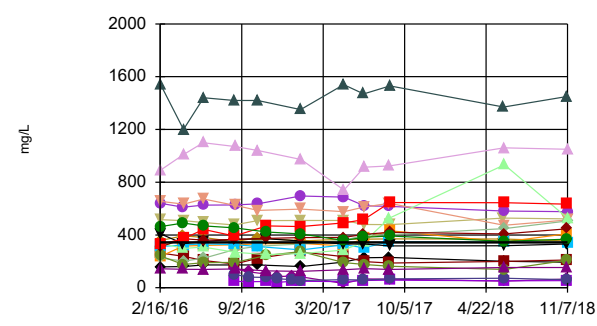
- ◆ GC-AP-MW-11
- ◆ GC-AP-MW-12
- ◆ GC-AP-MW-31
- ◆ GC-AP-MW-32
- ◆ GC-AP-MW-33
- ▲ GC-AP-MW-1
- ▼ GC-AP-MW-2
- ◆ GC-AP-MW-3
- ◆ GC-AP-MW-5
- ◆ GC-AP-MW-6
- ◆ GC-AP-MW-7
- ◆ GC-AP-MW-8
- ◆ GC-AP-MW-9
- ◆ GC-AP-MW-10
- ◆ GC-AP-MW-13
- ◆ GC-AP-MW-14
- ▼ GC-AP-MW-15
- ◆ GC-AP-MW-16
- ◆ GC-AP-MW-17
- ◆ GC-AP-MW-18
- ◆ GC-AP-MW-25
- Limit = 257.3

Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=1.63, Std. Dev.=1.879, n=88, 22.73% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9621, critical = 0.961. Kappa = 2.086 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 21 points to limit.

Constituent: Sulfate Analysis Run 1/10/2019 3:56 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW

Prediction Limit
Interwell Parametric



- ◆ GC-AP-MW-11
- ◆ GC-AP-MW-12
- ◆ GC-AP-MW-31
- ◆ GC-AP-MW-32
- ◆ GC-AP-MW-33
- ▲ 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-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
- Limit = 343.2

Background Data Summary (based on natural log transformation): Mean=3.995, Std. Dev.=0.8837, n=88, 12.5% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9661, critical = 0.961. Kappa = 2.086 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 21 points to limit.

Constituent: TDS Analysis Run 1/10/2019 3:56 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

Intrawell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (SU)	GC-AP-MW-11	6.176	5.913	11/5/2018	6.26	Yes	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-28	6.15	4.81	11/6/2018	4.67	Yes	11	0	n/a	0.005613	NP Intra (normality) ...

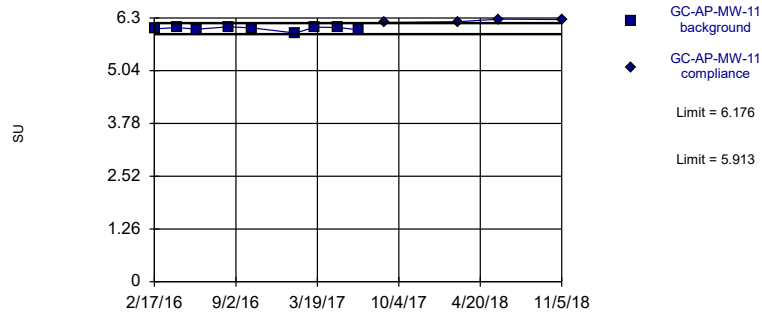
Intrawell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (SU)	GC-AP-MW-11	6.176	5.913	11/5/2018	6.26	Yes	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-12	7.099	6.65	11/5/2018	6.81	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-21	7.326	6.523	11/5/2018	6.66	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-23	6.858	6.212	11/7/2018	6.37	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-24	5.625	5.245	11/7/2018	5.34	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-26	6.669	4.327	11/6/2018	5.54	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-27	5.725	4.439	11/6/2018	4.9	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-28	6.15	4.81	11/6/2018	4.67	Yes	11	0	n/a	0.005613	NP Intra (normality) ...
pH (SU)	GC-AP-MW-29	7.629	4.336	11/6/2018	4.86	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-30	5.671	5.004	11/6/2018	5.12	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-31	7.42	5.786	11/6/2018	5.89	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-32	6.128	5.879	11/5/2018	6.01	No	12	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-33	7.202	3.845	11/6/2018	4.62	No	11	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-1	6.12	5.714	11/6/2018	5.95	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-2	6.259	5.944	11/6/2018	6.04	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-3	6.472	6.237	11/6/2018	6.34	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-5	6.792	6.468	11/6/2018	6.65	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-6	6.615	6.316	11/7/2018	6.48	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-7	6.517	6.365	11/7/2018	6.37	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-8	6.401	6.13	11/7/2018	6.31	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-9	6.614	6.246	11/7/2018	6.49	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-10	6.842	6.082	11/7/2018	6.51	No	9	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-13	7.075	5.979	11/5/2018	6.69	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-14	6.559	6.167	11/7/2018	6.42	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-15	6.275	5.973	11/6/2018	6.09	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-16	6.453	6.143	11/6/2018	6.37	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-17	6.639	6.143	11/6/2018	6.47	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-18	6.393	6.177	11/6/2018	6.31	No	10	0	No	0.000...	Param Intra 1 of 3
pH (SU)	GC-AP-MW-25	5.487	5.141	11/6/2018	5.28	No	10	0	No	0.000...	Param Intra 1 of 3

Exceeds Limits

Prediction Limit
Intrawell Parametric

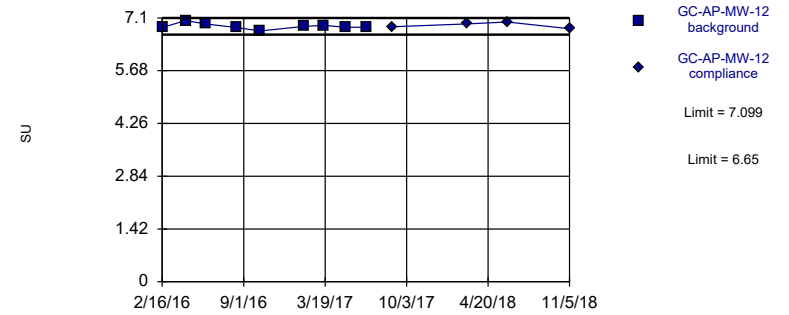


Background Data Summary: Mean=6.044, Std. Dev.=0.04558, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8452, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:14 PM View: PLs - Intrawell
 Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

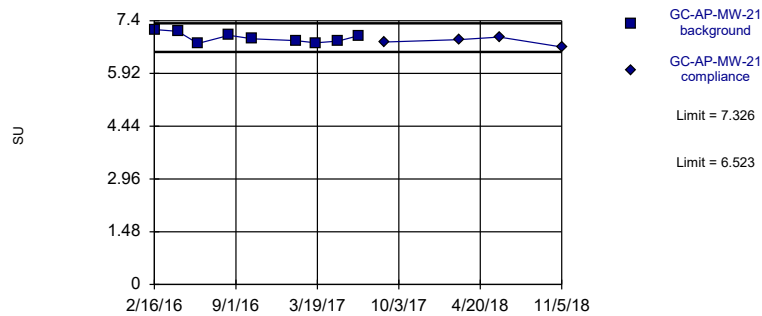


Background Data Summary: Mean=6.874, Std. Dev.=0.07764, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
 Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

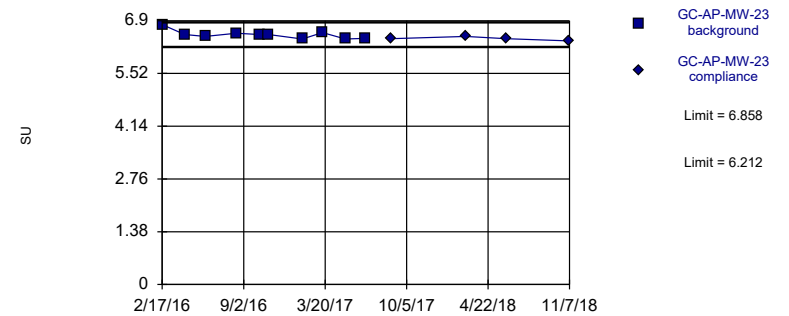


Background Data Summary: Mean=6.924, Std. Dev.=0.1388, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
 Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

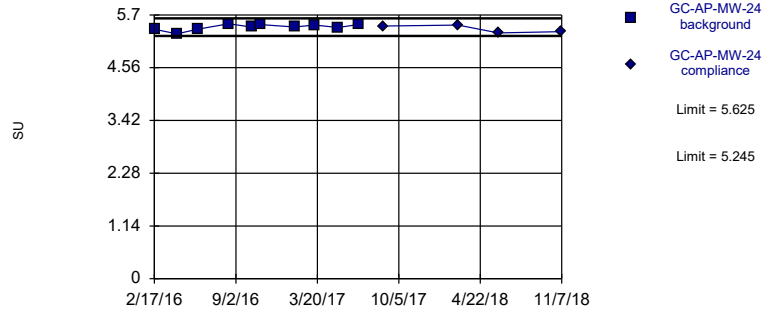


Background Data Summary: Mean=6.535, Std. Dev.=0.1116, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8465, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
 Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

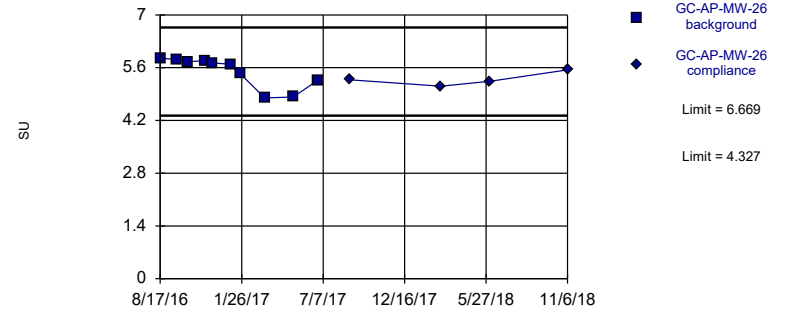


Background Data Summary: Mean=5.435, Std. Dev.=0.0657, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8972, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

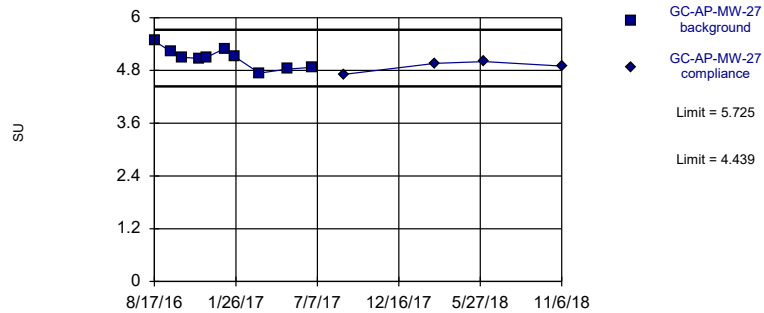


Background Data Summary: Mean=5.498, Std. Dev.=0.4046, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7954, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

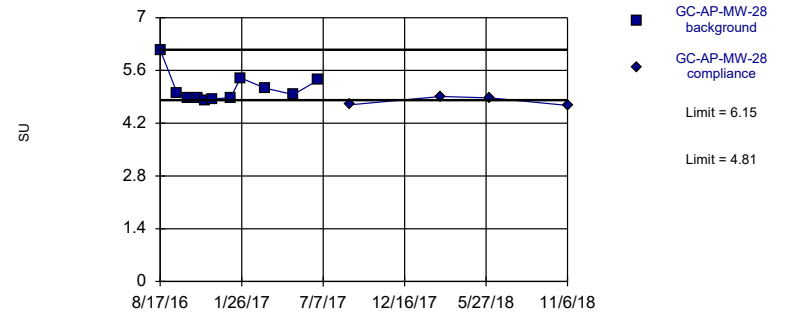


Background Data Summary: Mean=5.082, Std. Dev.=0.2223, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9637, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Exceeds Limits

Prediction Limit Intrawell Non-parametric

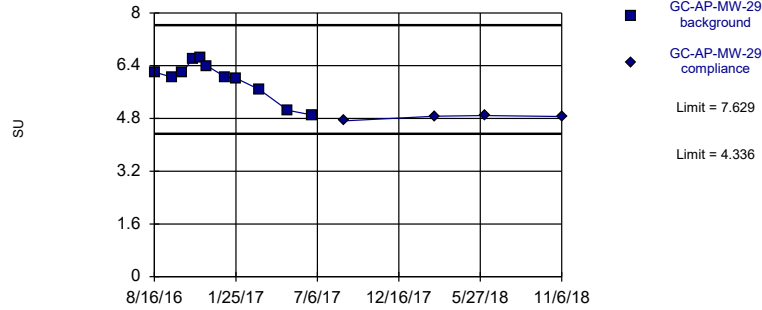


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 11 background values. Well-constituent pair annual alpha = 0.01121. Individual comparison alpha = 0.005613 (1 of 3).

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

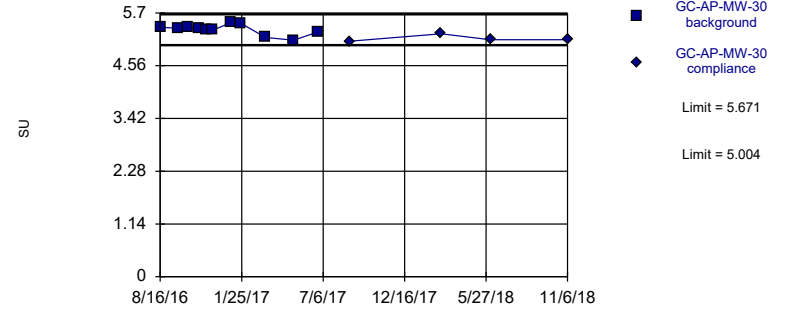


Background Data Summary: Mean=5.983, Std. Dev.=0.5689, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8823, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

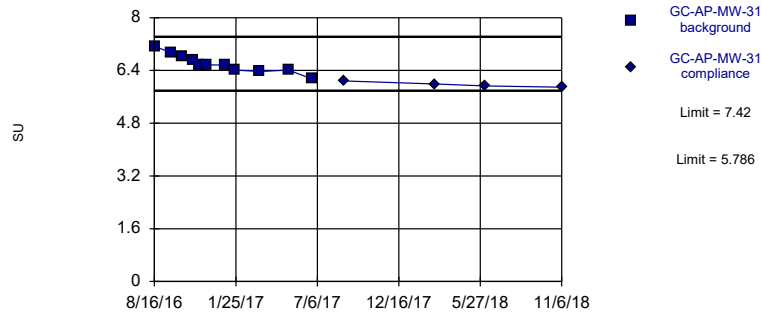


Background Data Summary: Mean=5.337, Std. Dev.=0.1152, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

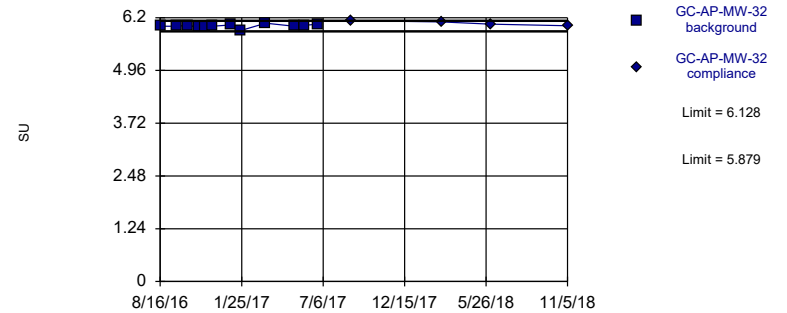


Background Data Summary: Mean=6.603, Std. Dev.=0.2823, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9709, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

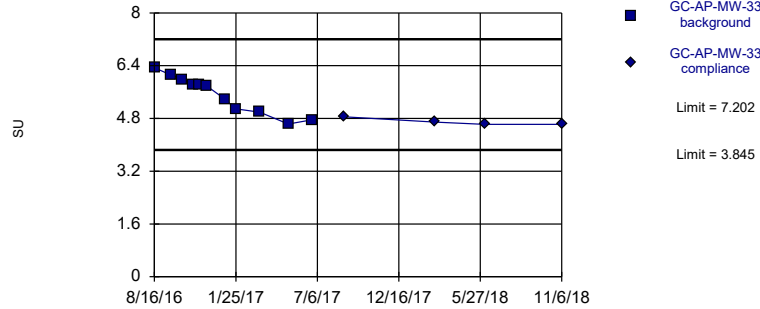


Background Data Summary: Mean=6.003, Std. Dev.=0.04292, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9184, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

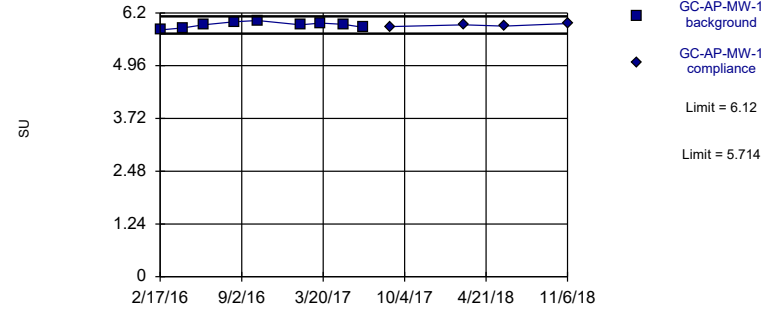


Background Data Summary: Mean=5.524, Std. Dev.=0.5801, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.93, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

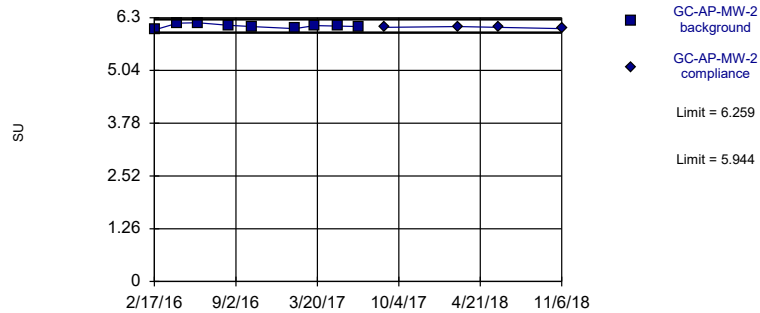


Background Data Summary: Mean=5.917, Std. Dev.=0.07018, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

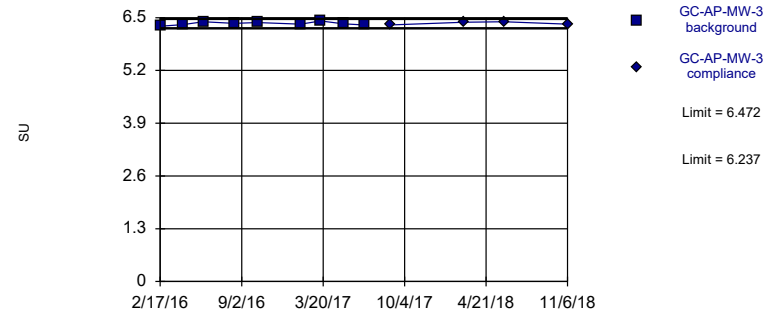


Background Data Summary: Mean=6.101, Std. Dev.=0.05442, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.951, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

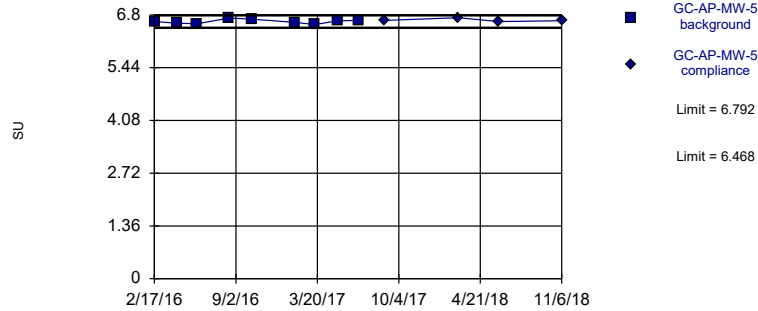


Background Data Summary: Mean=6.354, Std. Dev.=0.04065, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9876, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

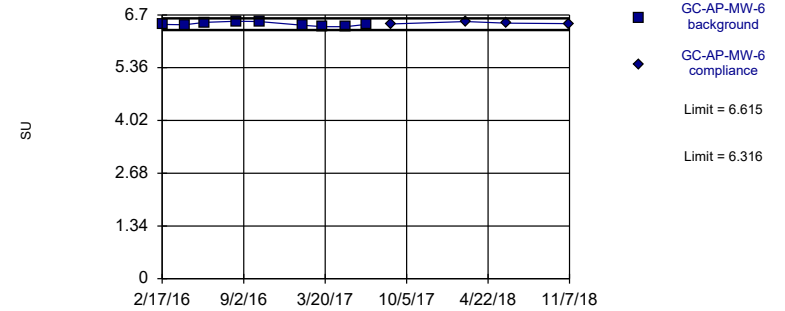


Background Data Summary: Mean=6.63, Std. Dev.=0.0559, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9815, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

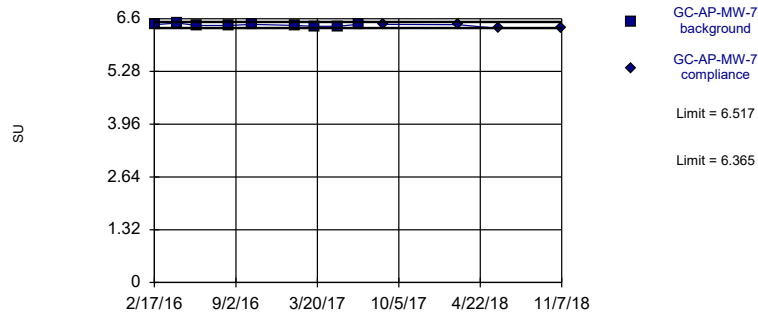


Background Data Summary: Mean=6.466, Std. Dev.=0.05151, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9154, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:15 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

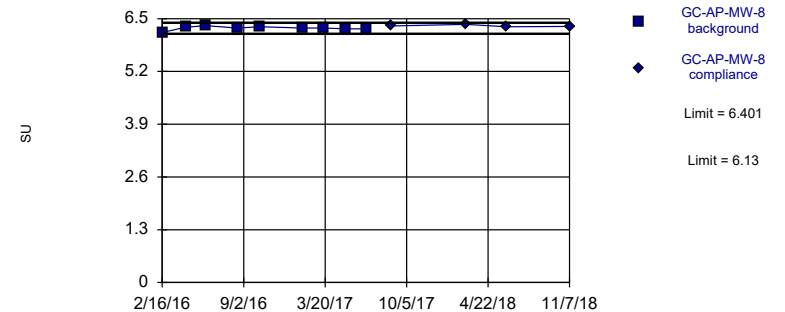


Background Data Summary: Mean=6.441, Std. Dev.=0.02619, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9222, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

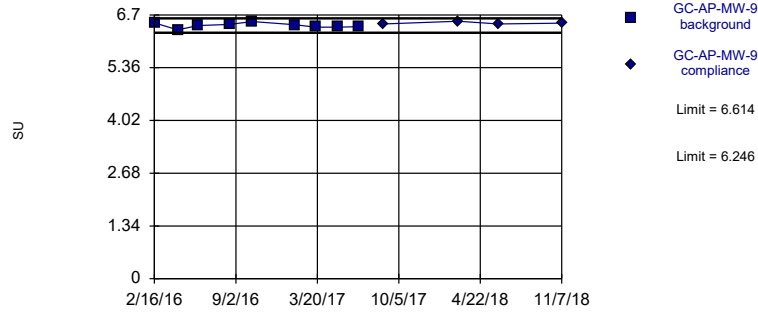


Background Data Summary: Mean=6.266, Std. Dev.=0.04693, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8756, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

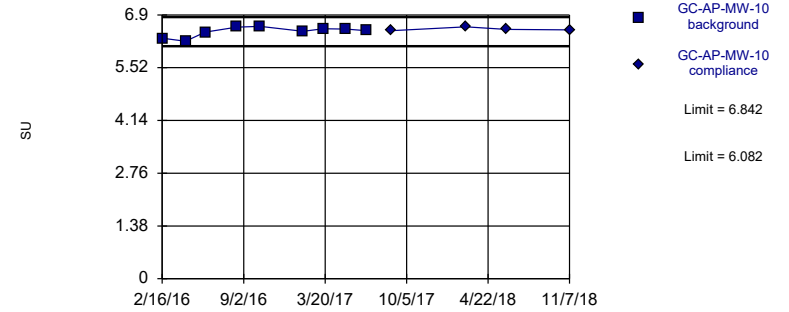


Background Data Summary: Mean=6.43, Std. Dev.=0.06364, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9768, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

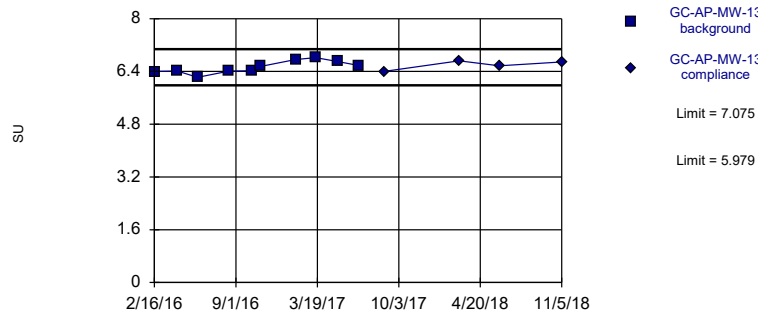


Background Data Summary: Mean=6.462, Std. Dev.=0.1312, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.875, critical = 0.764. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

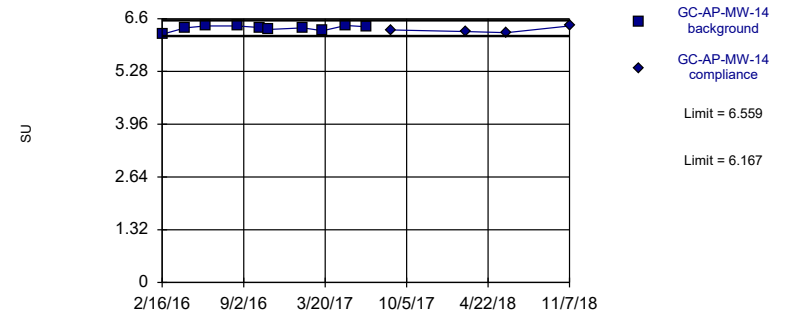


Background Data Summary: Mean=6.527, Std. Dev.=0.1893, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Intrawell Parametric

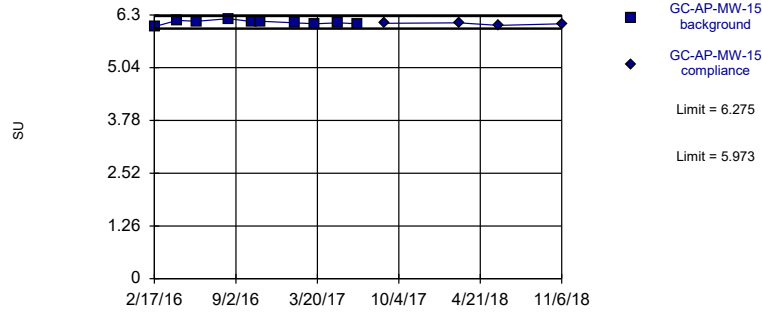


Background Data Summary: Mean=6.363, Std. Dev.=0.06767, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8676, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

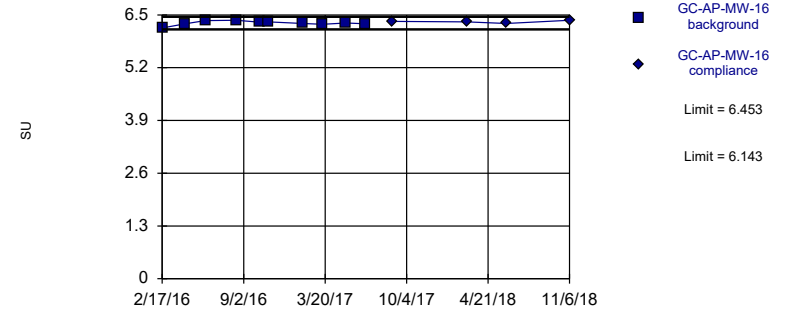


Background Data Summary: Mean=6.124, Std. Dev.=0.05232, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9664, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

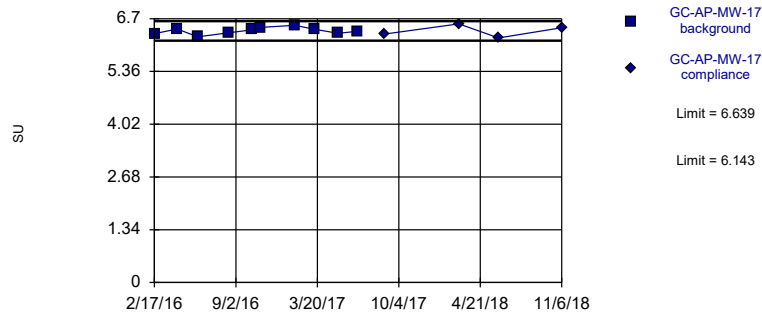


Background Data Summary: Mean=6.298, Std. Dev.=0.05371, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9214, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

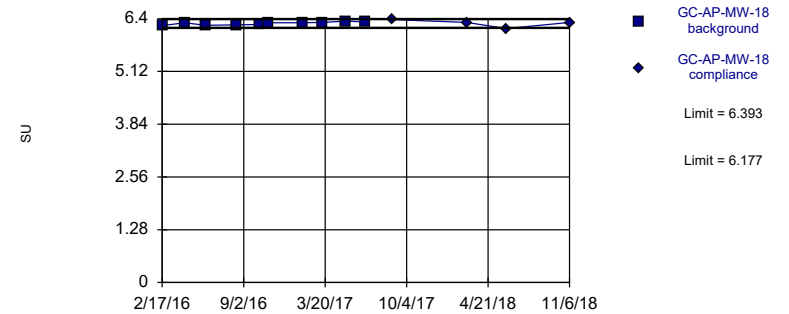


Background Data Summary: Mean=6.391, Std. Dev.=0.08582, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9828, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric

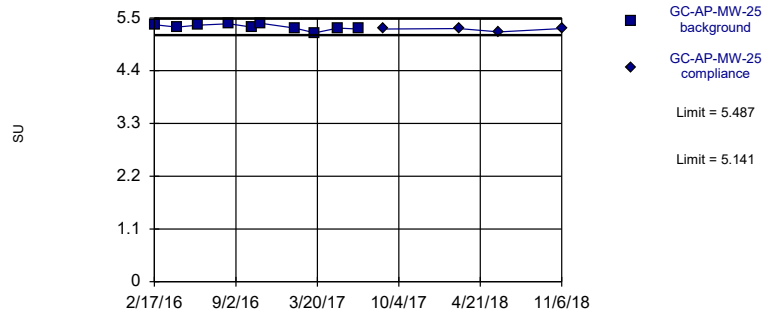


Background Data Summary: Mean=6.285, Std. Dev.=0.03719, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.923, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=5.314, Std. Dev.=0.05967, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9375, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 1/10/2019 4:16 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Trend Test - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GC-AP-MW-6	-0.2328	-42	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2944	48	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.2086	-38	-34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (Bg)	10.02	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (Bg)	-1.173	-43	-34	Yes	11	9.091	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	6.232	43	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	26.59	52	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	7.238	40	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	19.69	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-10.03	-41	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (Bg)	2.023	41	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-10.9	-45	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	5.889	41	34	Yes	11	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (Bg)	-0.4212	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (Bg)	-0.9695	-73	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (Bg)	-0.1465	-58	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (Bg)	33.76	50	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (Bg)	51.33	47	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (Bg)	-17.69	-38	-34	Yes	11	27.27	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	37.81	41	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	114.2	51	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	35.76	49	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	126.3	45	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-59.19	-41	-34	Yes	11	0	n/a	n/a	0.01	NP

Trend Test - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GC-AP-MW-21 (Bg)	-0.02412	-23	-34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (Bg)	0	13	34	No	11	72.73	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (Bg)	0	0	34	No	11	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (Bg)	0	0	34	No	11	90.91	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (Bg)	0	7	34	No	11	81.82	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (Bg)	0	0	34	No	11	90.91	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (Bg)	0	4	34	No	11	90.91	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (Bg)	0	0	34	No	11	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.006667	10	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.2328	-42	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.05298	33	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.1034	31	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2944	48	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	-0.03592	-9	-34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.1251	19	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.03901	26	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.02769	3	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.04973	16	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.2086	-38	-34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21 (Bg)	-1.478	-11	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (Bg)	-4.759	-25	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (Bg)	10.02	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (Bg)	-0.2015	-3	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (Bg)	-0.2531	-31	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (Bg)	-0.2224	-9	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (Bg)	-1.173	-43	-34	Yes	11	9.091	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (Bg)	-0.02425	-1	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-4.938	-13	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	-1.848	-8	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-0.5214	-1	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	6.232	43	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	-5.069	-7	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	-17.8	-10	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	-1.819	-11	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	26.59	52	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	-1.422	-7	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	25.43	27	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	-0.09932	-5	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	7.238	40	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	19.69	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-10.03	-41	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21 (Bg)	2.224	14	34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (Bg)	-0.1232	-8	-34	No	11	18.18	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (Bg)	2.023	41	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (Bg)	-0.0632	-4	-34	No	11	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (Bg)	-0.1074	-3	-34	No	11	18.18	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (Bg)	-0.2611	-14	-34	No	11	18.18	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (Bg)	-0.3761	-24	-34	No	11	18.18	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (Bg)	-0.5098	-27	-34	No	11	18.18	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0.784	22	34	No	11	0	n/a	n/a	0.01	NP

Trend Test - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-6	1.443	11	34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	-9.845	-25	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-10.9	-45	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	5.889	41	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	1.57	34	34	No	11	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21 (Bg)	0.01098	13	38	No	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (Bg)	0.003747	15	38	No	12	8.333	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (Bg)	0.0116	17	38	No	12	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (Bg)	-0.03239	-12	-38	No	12	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (Bg)	0	-2	-38	No	12	83.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (Bg)	0	-2	-38	No	12	83.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (Bg)	0	-2	-38	No	12	83.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (Bg)	0	-17	-38	No	12	91.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.003989	10	38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-11	0.08273	37	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-21 (Bg)	-0.1018	-28	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (Bg)	-0.07766	-45	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (Bg)	0	3	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (Bg)	-0.4212	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (Bg)	-0.2565	-42	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (Bg)	-0.1142	-27	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (Bg)	-0.9695	-73	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (Bg)	-0.1465	-58	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21 (Bg)	-19.1	-31	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (Bg)	-2.504	-29	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (Bg)	33.76	50	34	Yes	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (Bg)	-1.883	-7	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (Bg)	2.066	29	34	No	11	36.36	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (Bg)	0.116	2	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (Bg)	1.187	28	34	No	11	63.64	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (Bg)	2.025	29	34	No	11	81.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	37.34	23	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	-18.45	-20	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	-45.63	-9	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21 (Bg)	-12.1	-21	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (Bg)	-22.51	-32	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (Bg)	51.33	47	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (Bg)	-8.795	-11	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (Bg)	0	4	34	No	11	27.27	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (Bg)	-5.154	-14	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (Bg)	-17.69	-38	-34	Yes	11	27.27	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (Bg)	0	1	34	No	11	45.45	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	4.11	3	34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	2.205	7	34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-5.53	-9	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	37.81	41	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	-15.67	-19	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	-5.556	-1	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-54.01	-29	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	114.2	51	34	Yes	11	0	n/a	n/a	0.01	NP

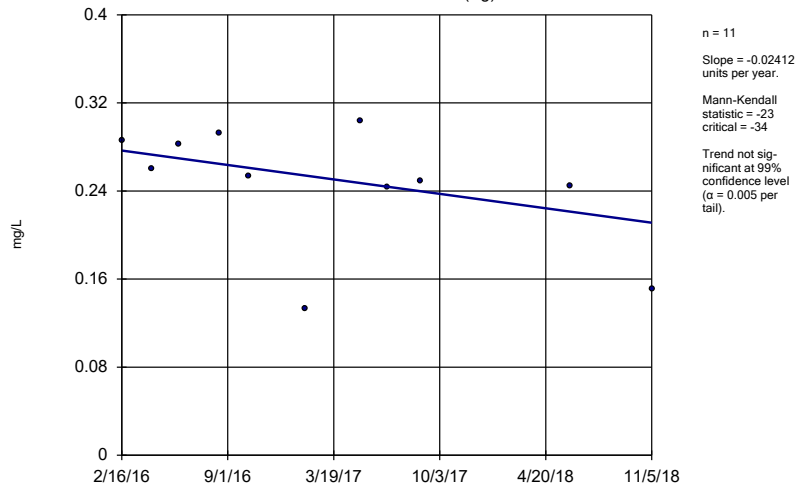
Trend Test - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-14	89.81	20	34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	35.76	49	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	126.3	45	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-59.19	-41	-34	Yes	11	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GC-AP-MW-21 (Bg)

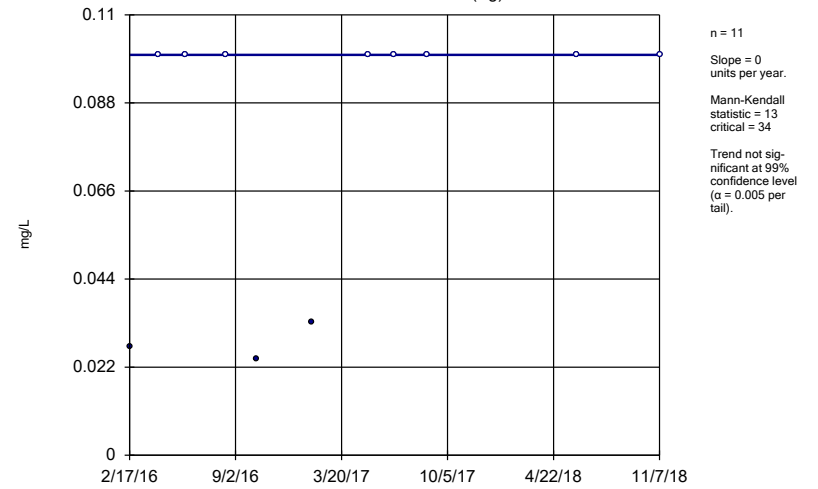


Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-23 (Bg)

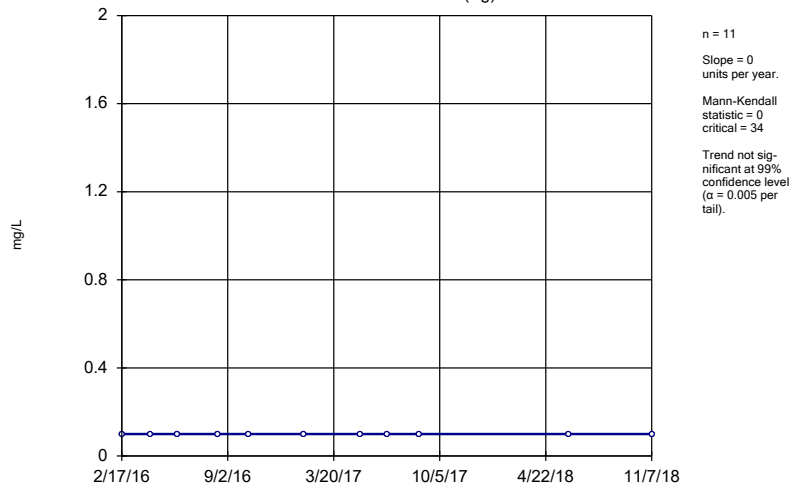


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 Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (Bg)

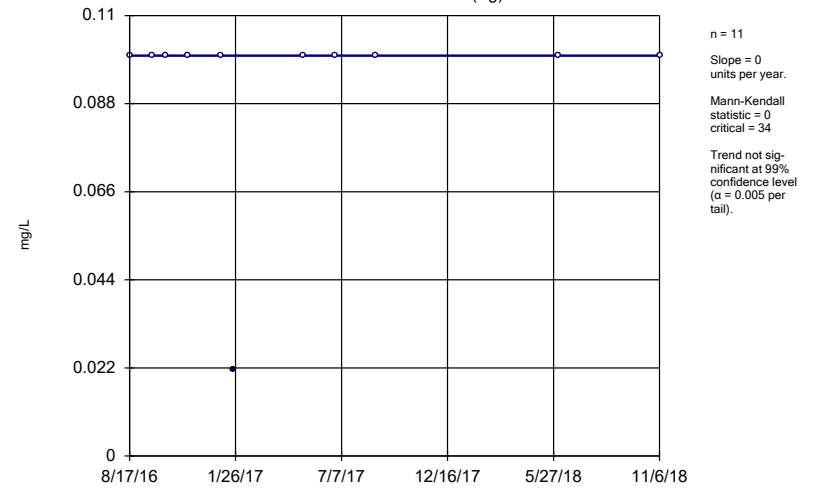


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 Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

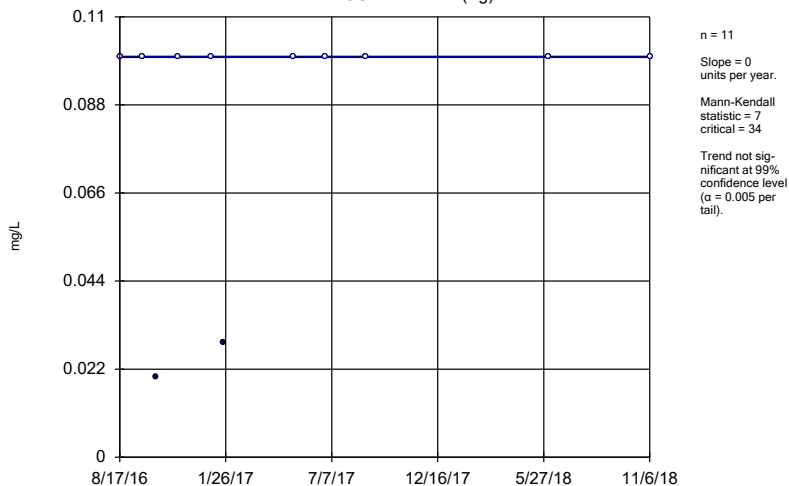
Sen's Slope Estimator

GC-AP-MW-26 (Bg)



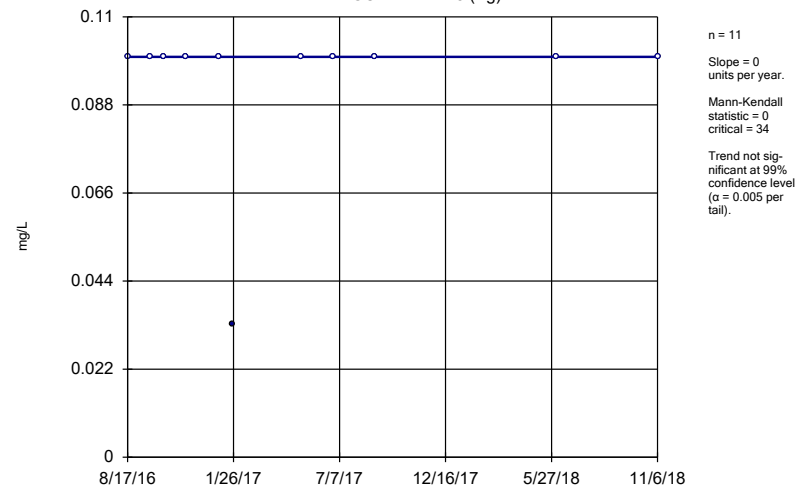
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 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-27 (Bg)



Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-28 (Bg)



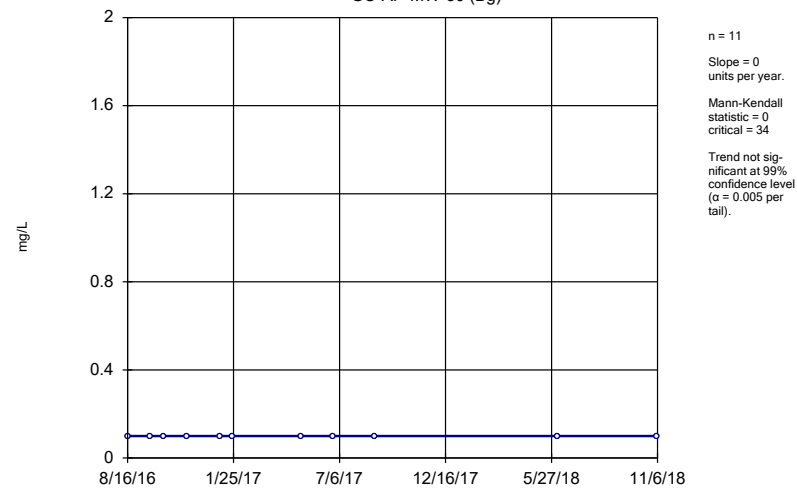
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-29 (Bg)



Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

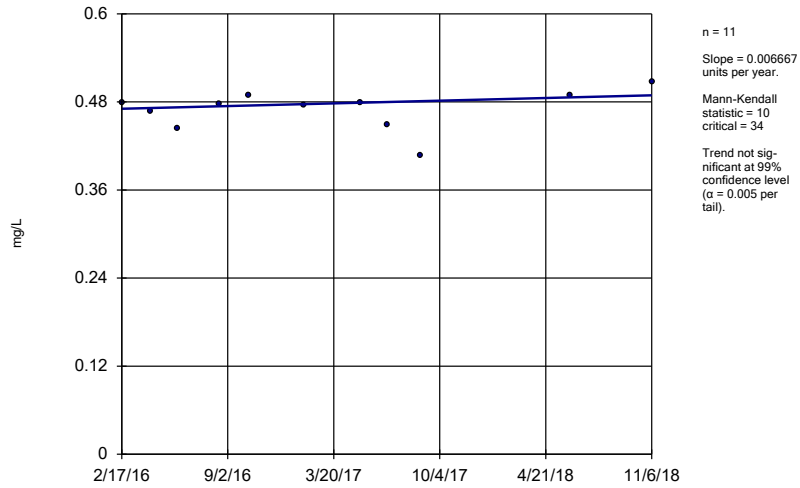
Sen's Slope Estimator GC-AP-MW-30 (Bg)



Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

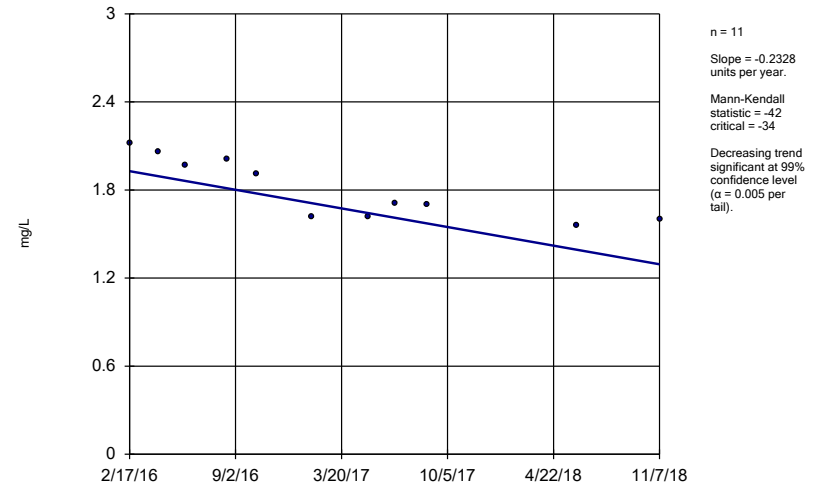
GC-AP-MW-5



Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

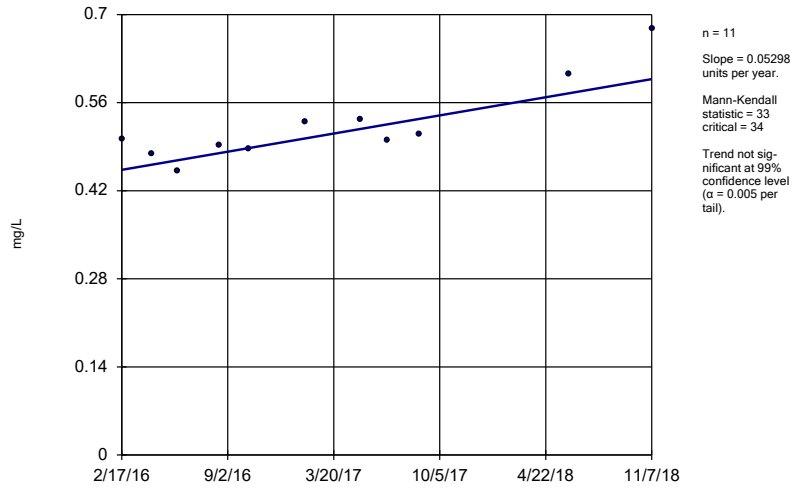
GC-AP-MW-6



Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

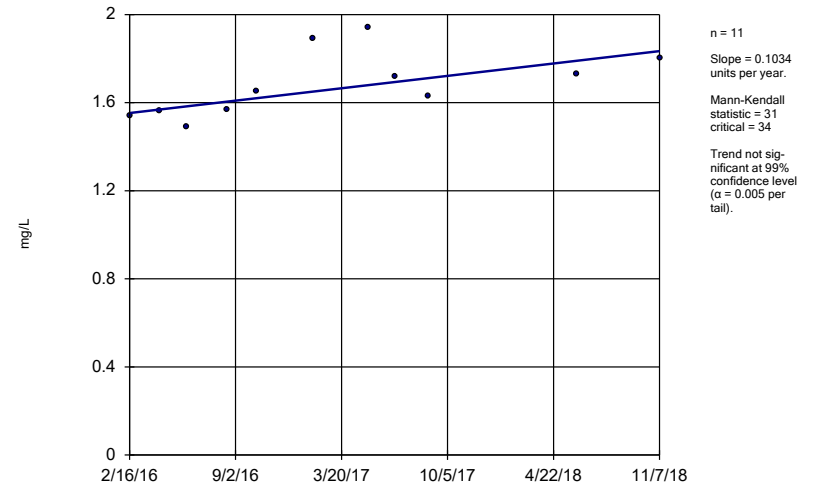
GC-AP-MW-7



Constituent: Boron Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

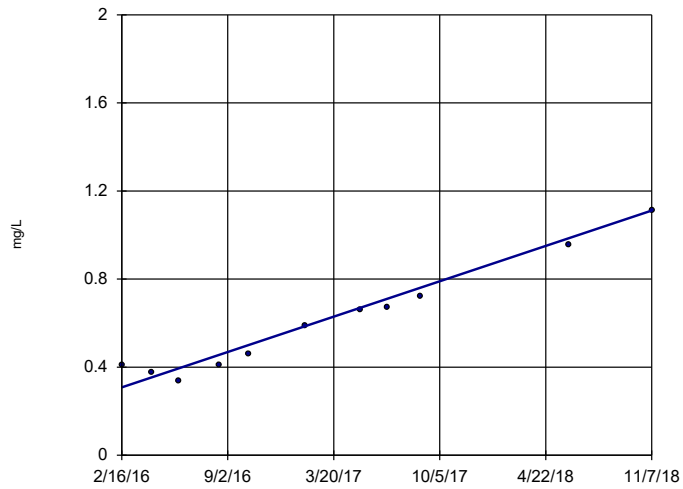
Sen's Slope Estimator

GC-AP-MW-8



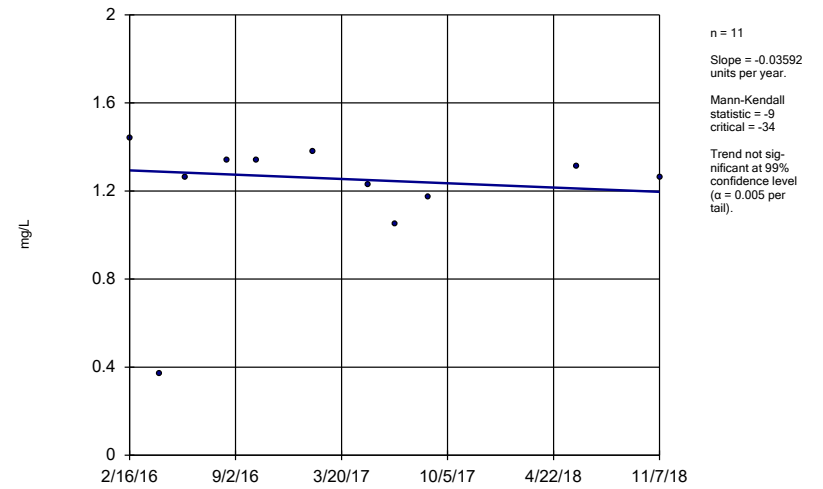
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-9



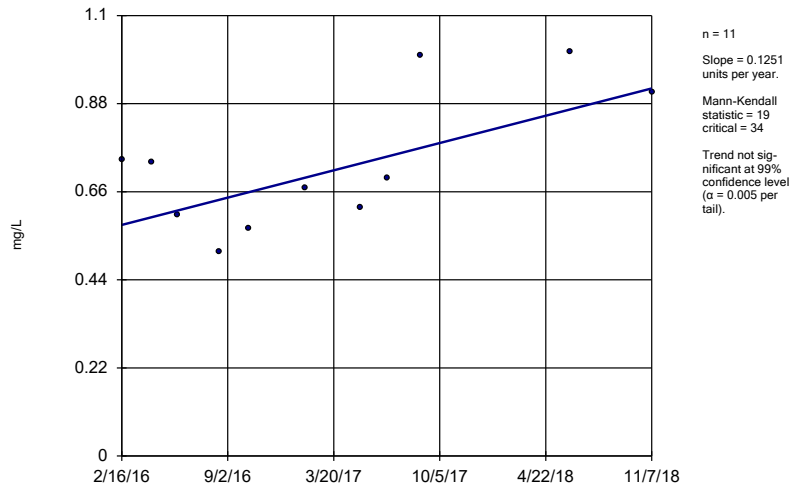
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-10



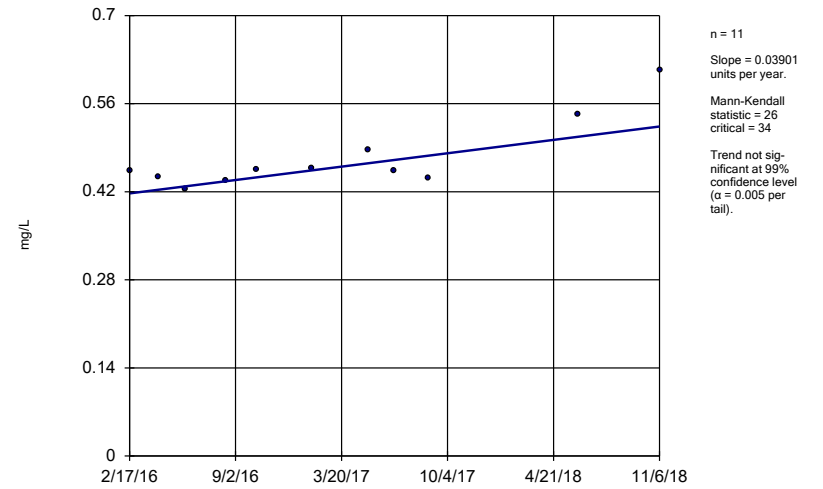
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-14



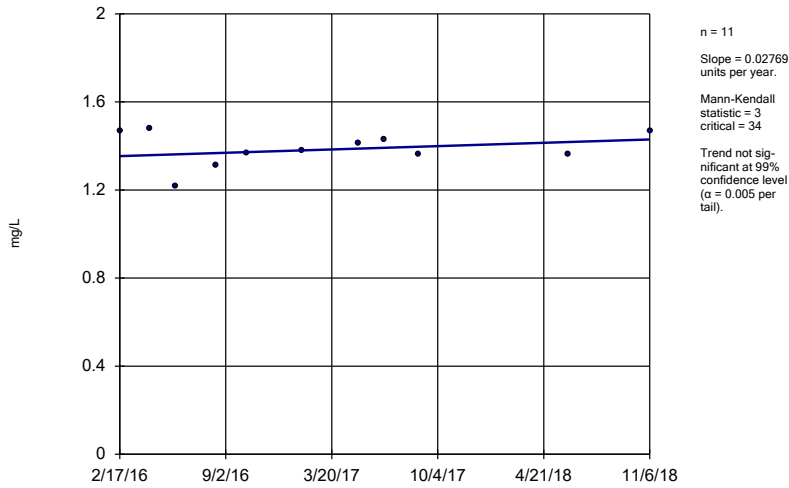
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-15



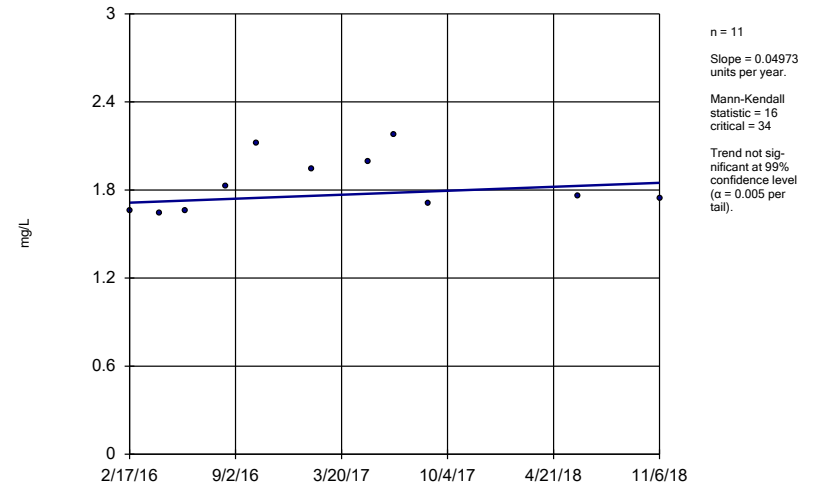
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-16



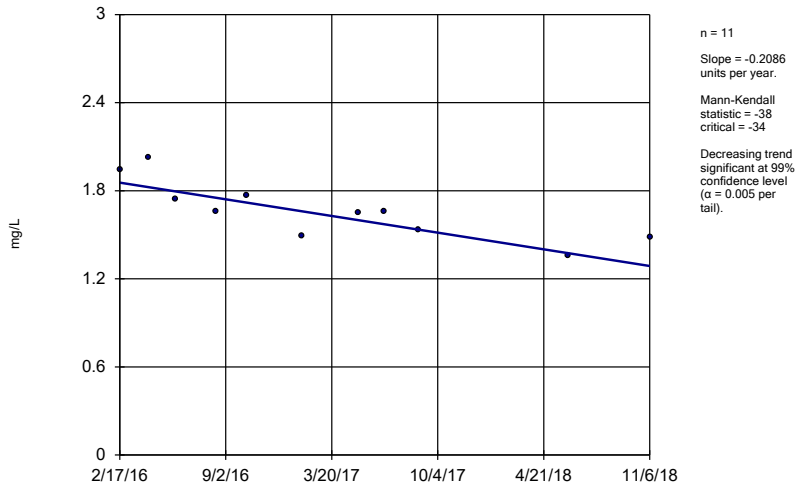
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-17



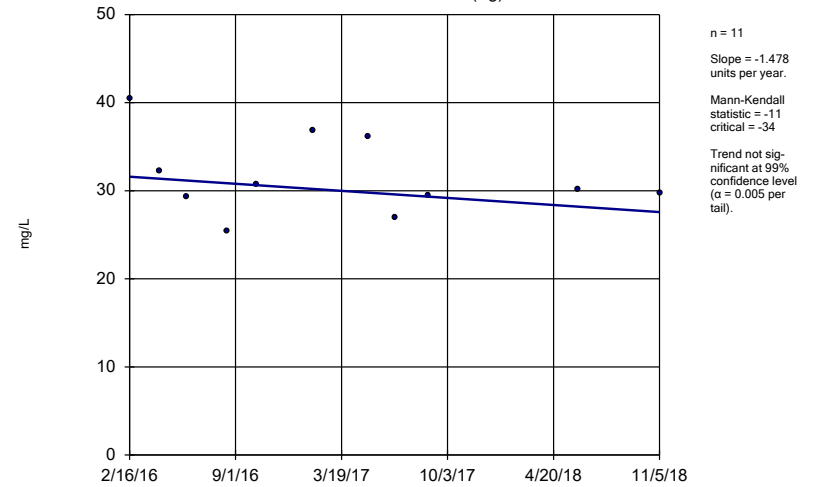
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-18



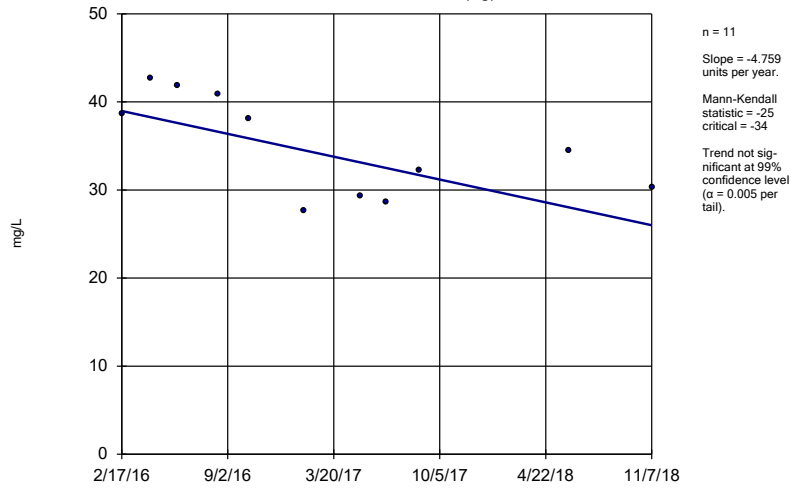
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-21 (Bg)



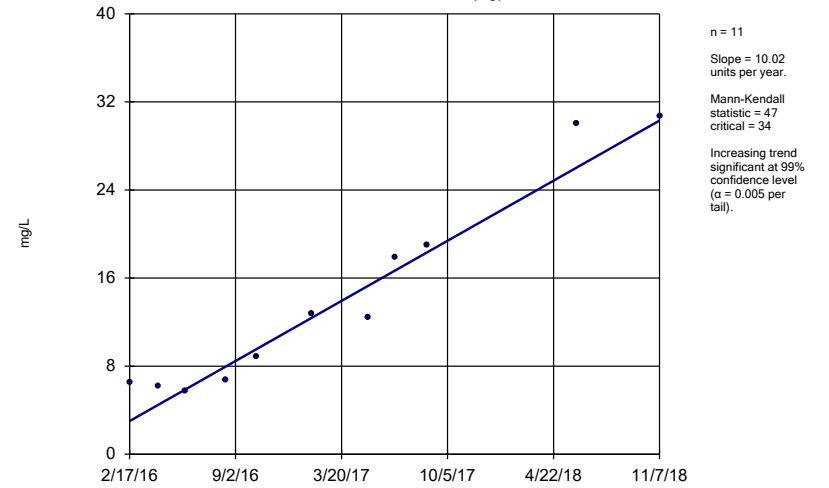
Constituent: Calcium Analysis Run 1/10/2019 4:06 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-23 (Bg)



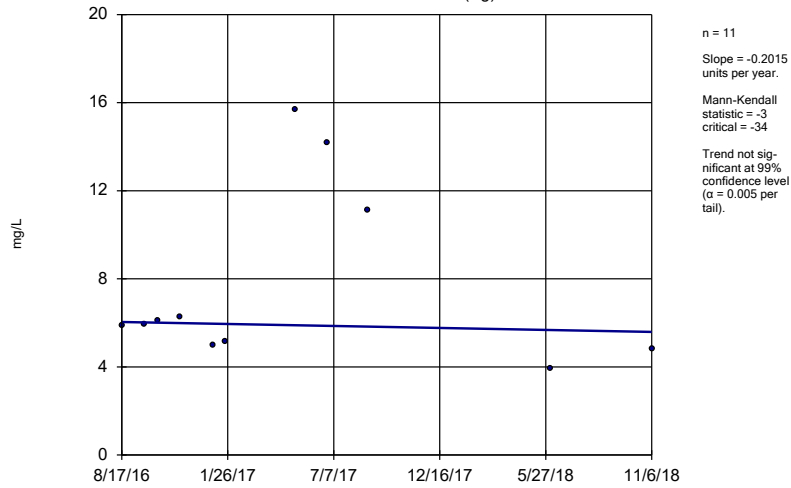
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (Bg)



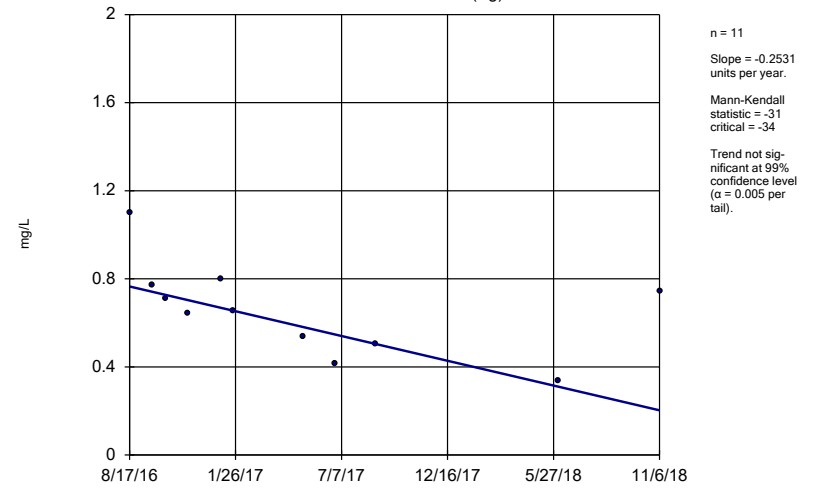
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-26 (Bg)



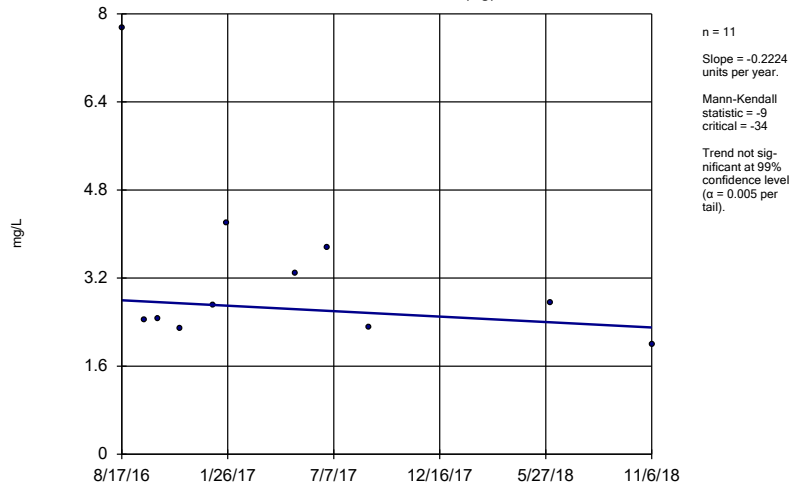
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-27 (Bg)



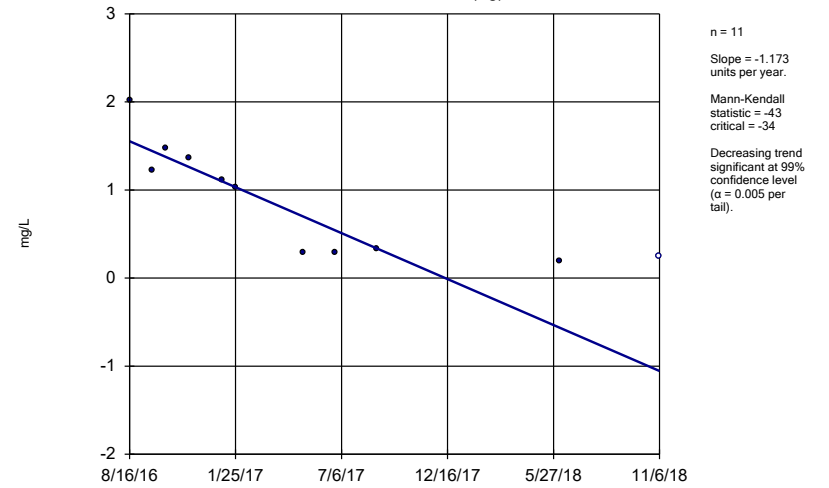
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-28 (Bg)



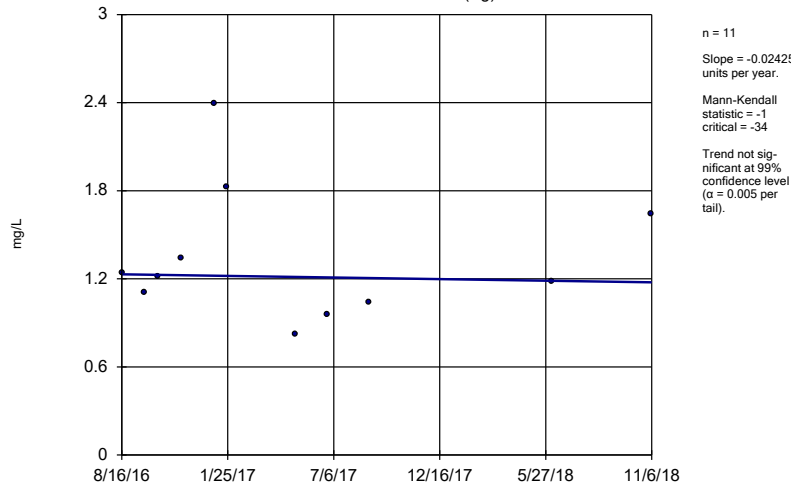
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-29 (Bg)



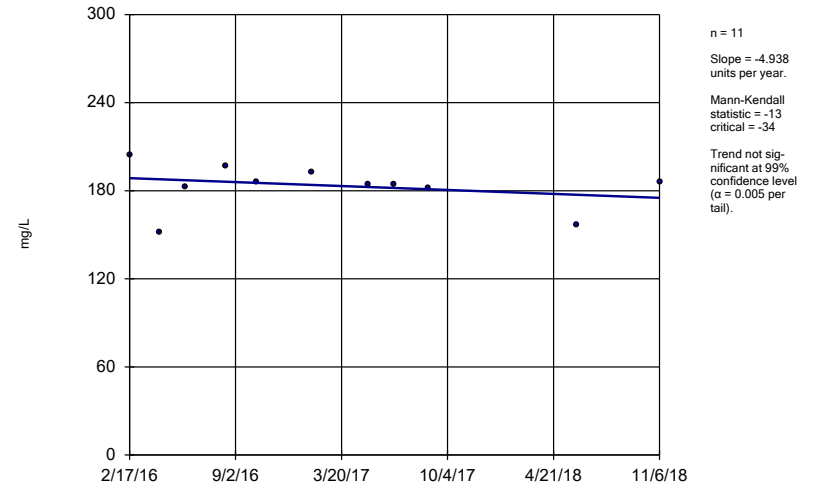
Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-30 (Bg)



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

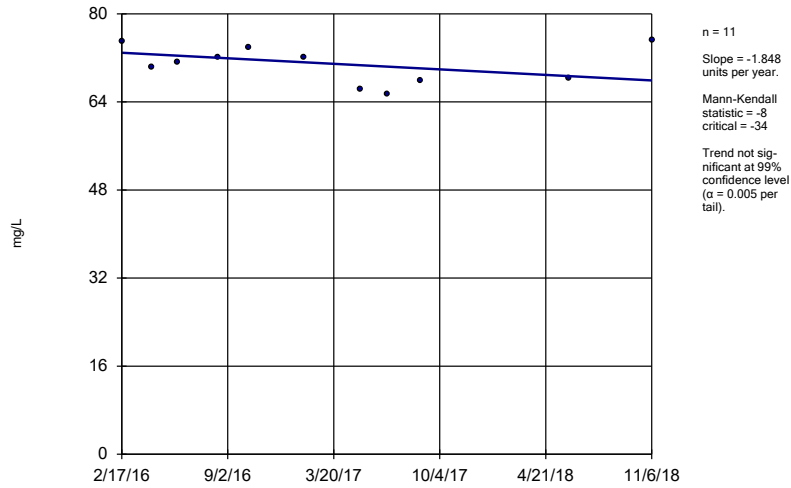
Sen's Slope Estimator GC-AP-MW-1



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

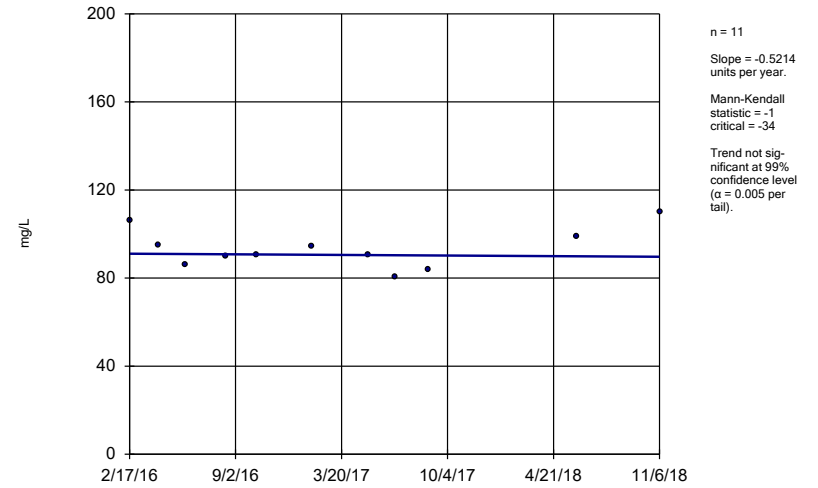
GC-AP-MW-2



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

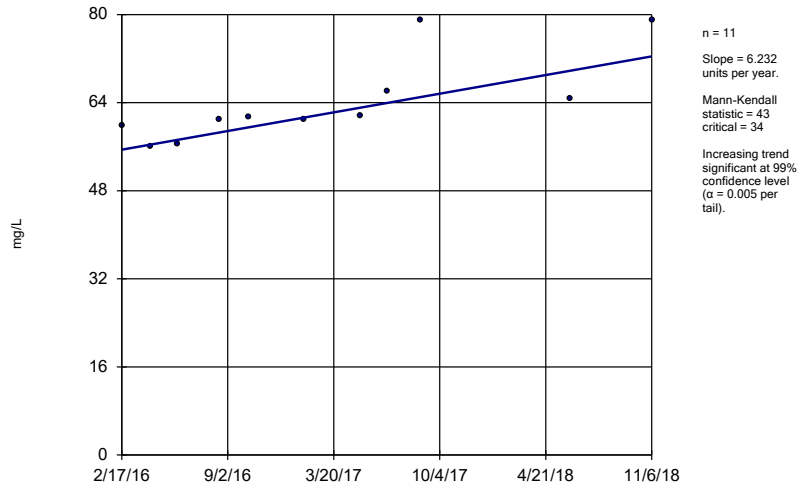
GC-AP-MW-3



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

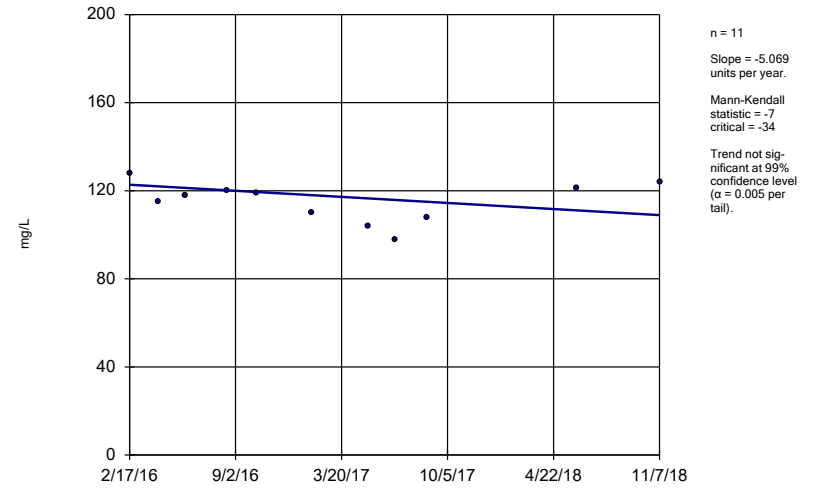
GC-AP-MW-5



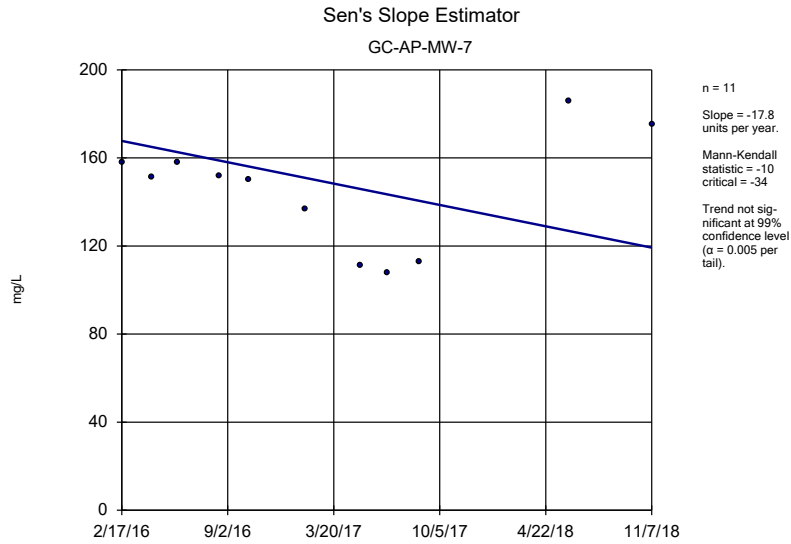
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Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

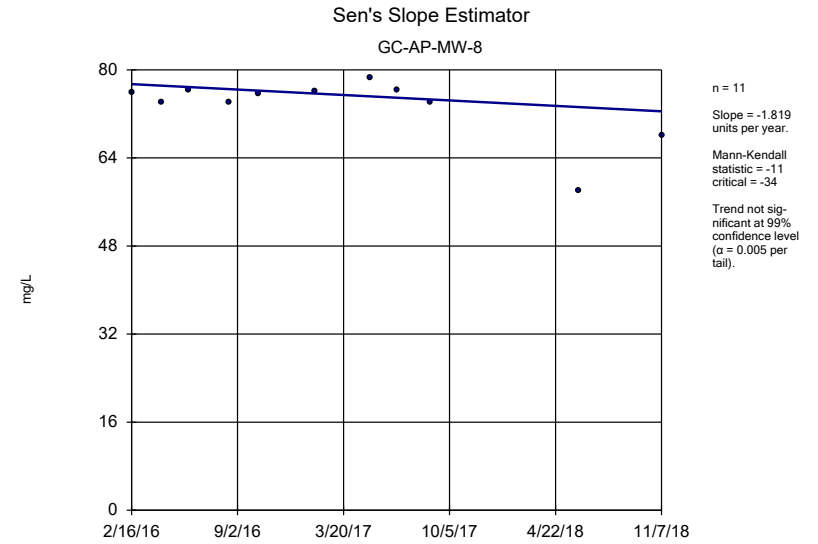
GC-AP-MW-6



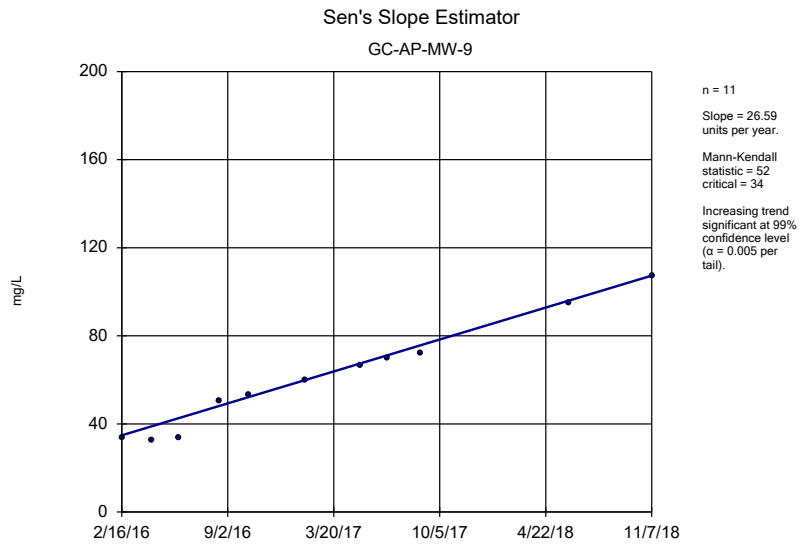
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Greene County Client: Southern Company Data: Greene County AP



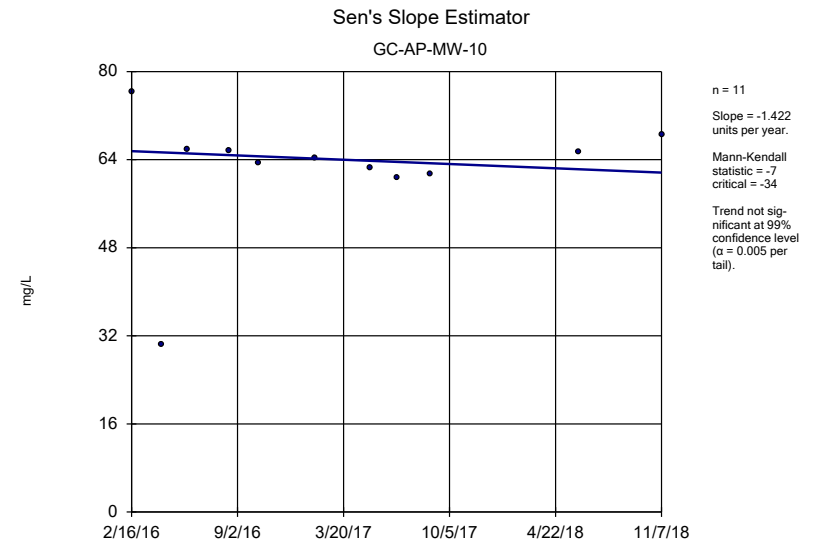
Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP



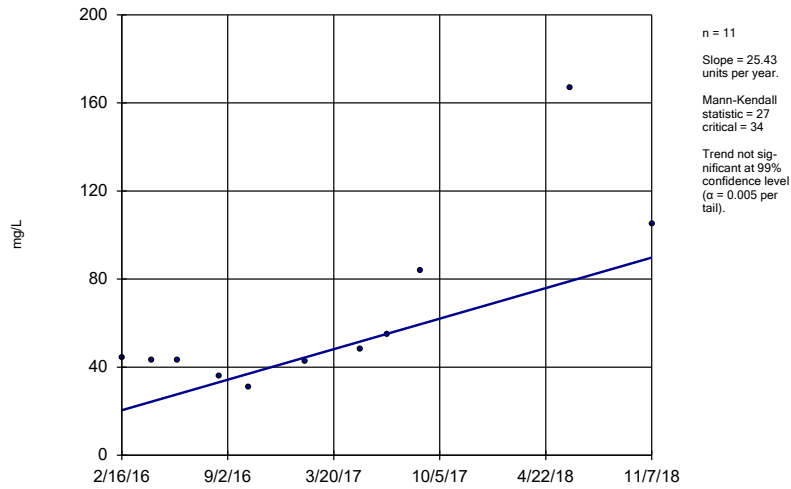
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Greene County Client: Southern Company Data: Greene County AP



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

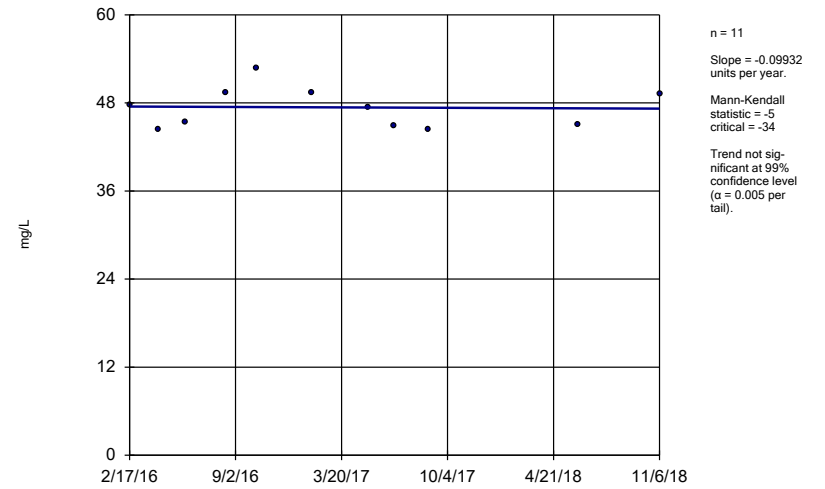
GC-AP-MW-14



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

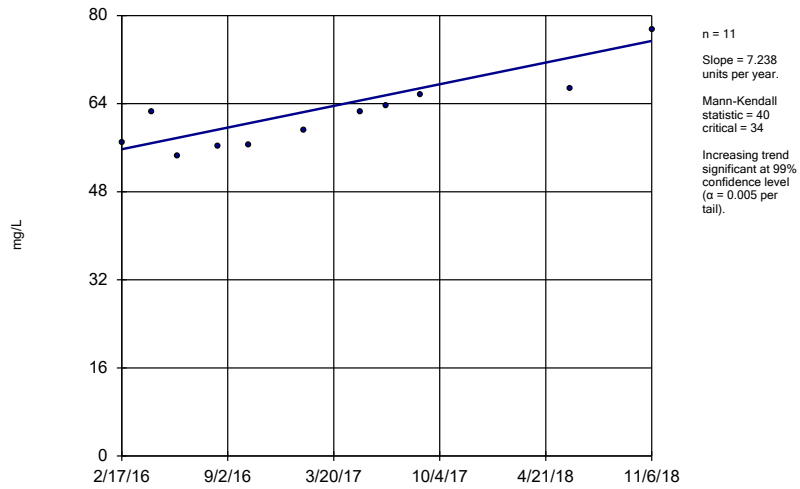
GC-AP-MW-15



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

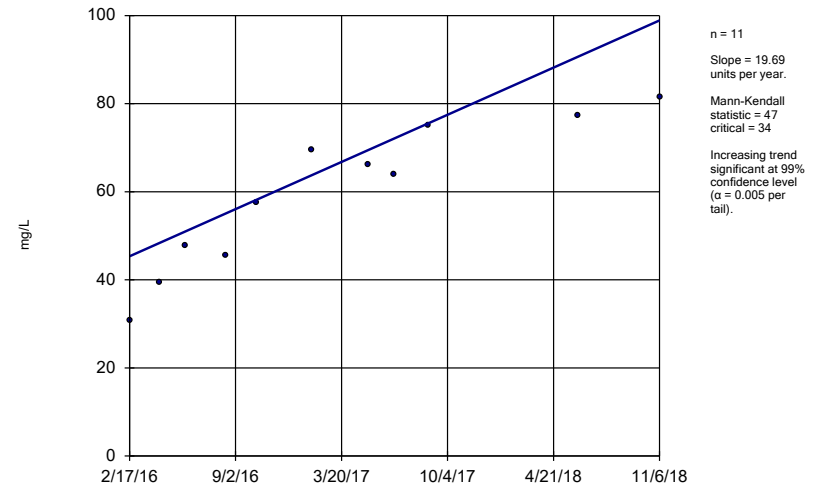
GC-AP-MW-16



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

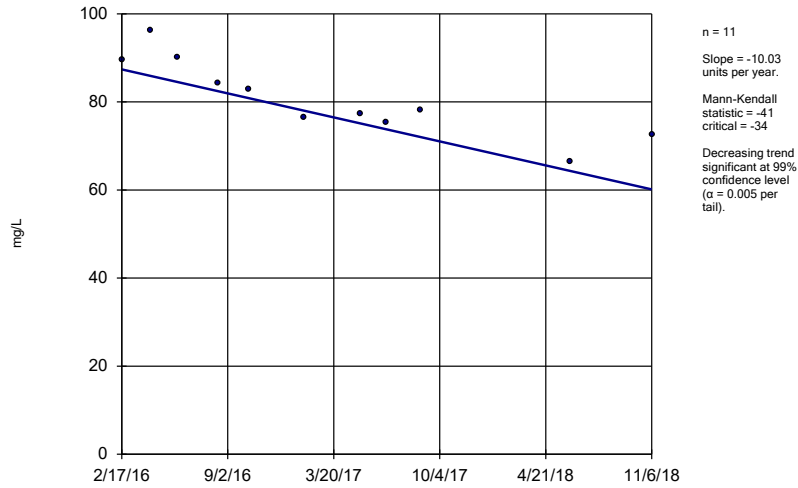
GC-AP-MW-17



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

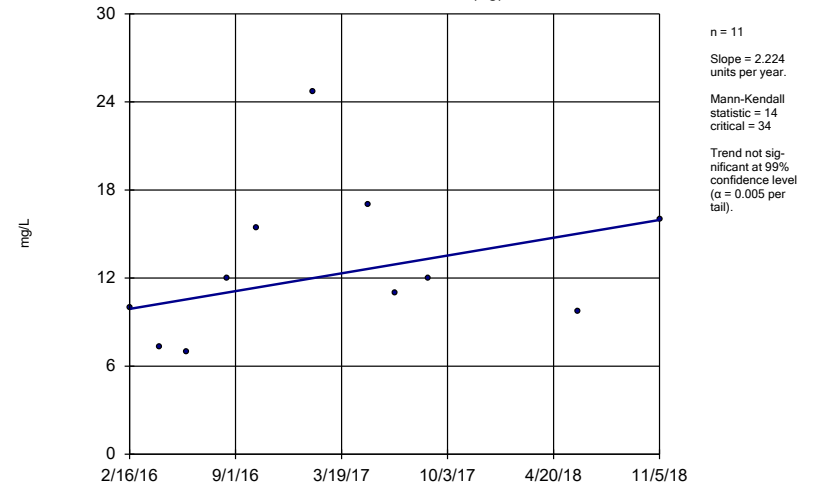
GC-AP-MW-18



Constituent: Calcium Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

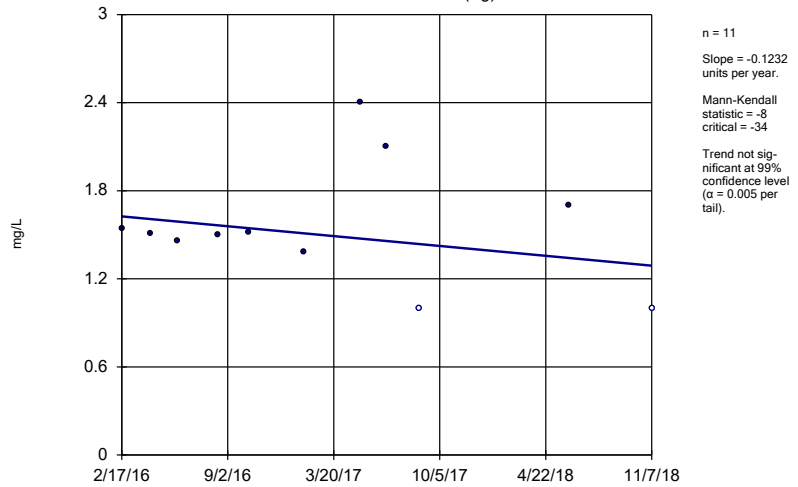
GC-AP-MW-21 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

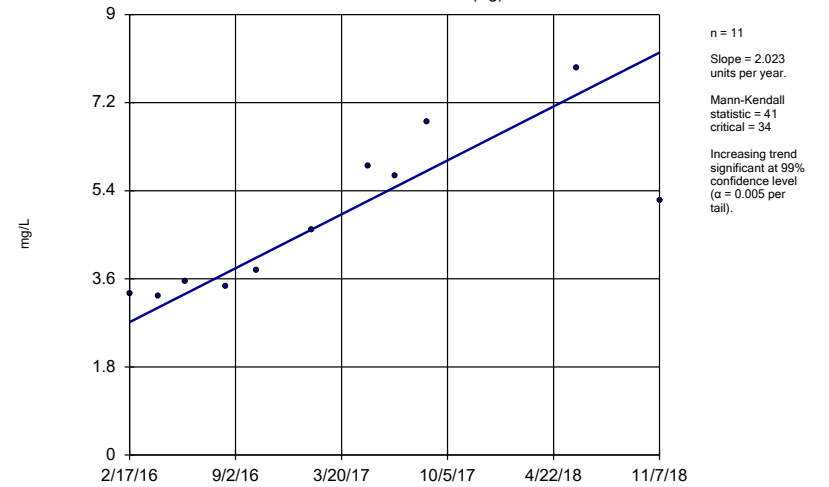
GC-AP-MW-23 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

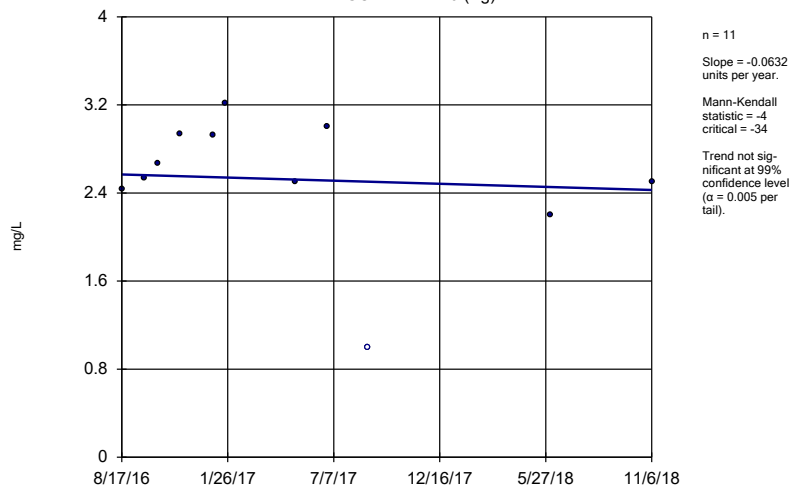
GC-AP-MW-24 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:07 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

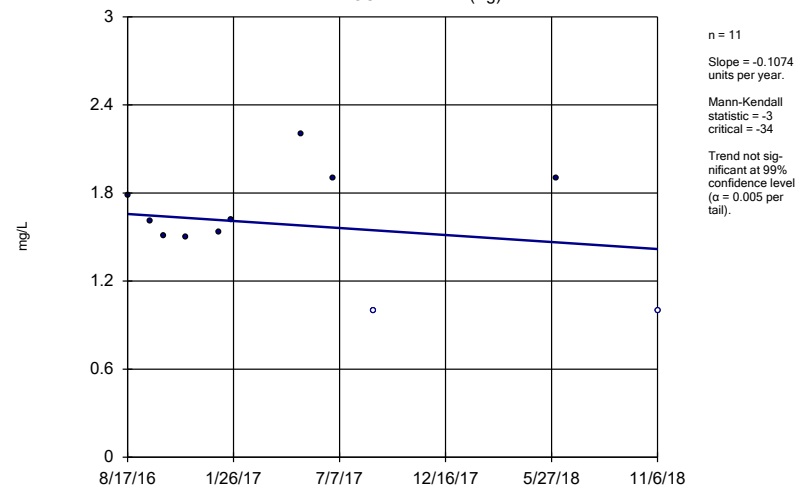
GC-AP-MW-26 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

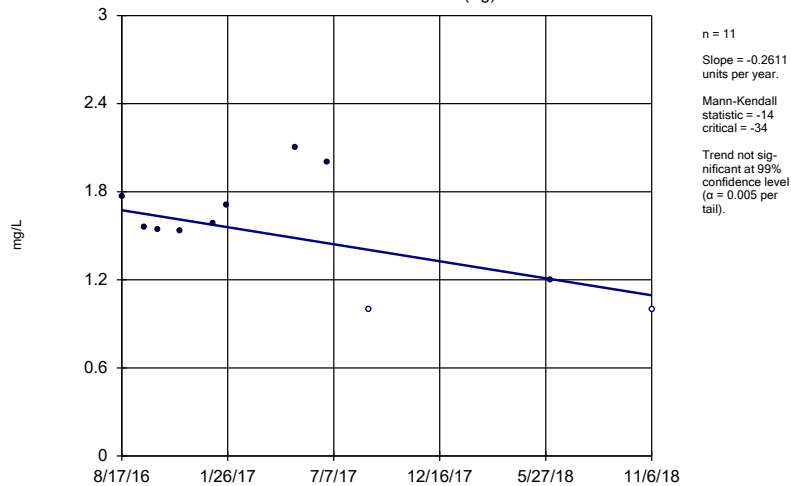
GC-AP-MW-27 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:07 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

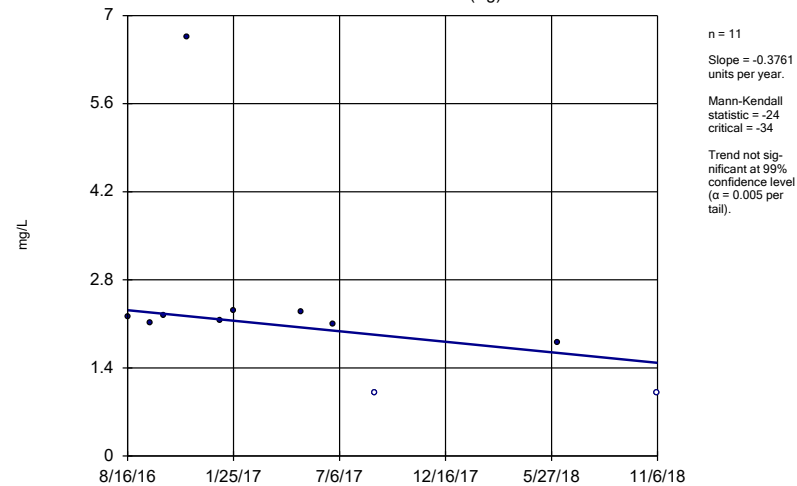
GC-AP-MW-28 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

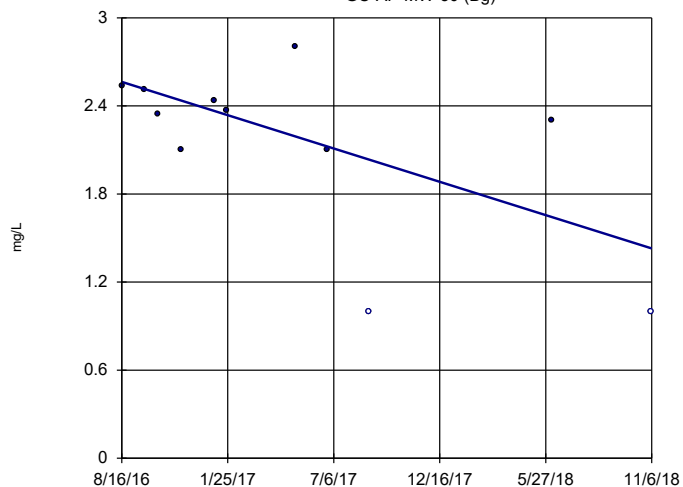
GC-AP-MW-29 (Bg)



Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-30 (Bg)

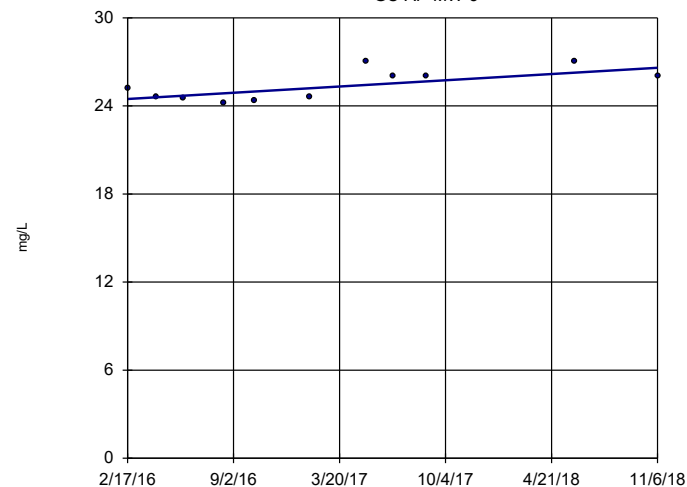


n = 11
Slope = -0.5098
units per year.
Mann-Kendall
statistic = -27
critical = -34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-3

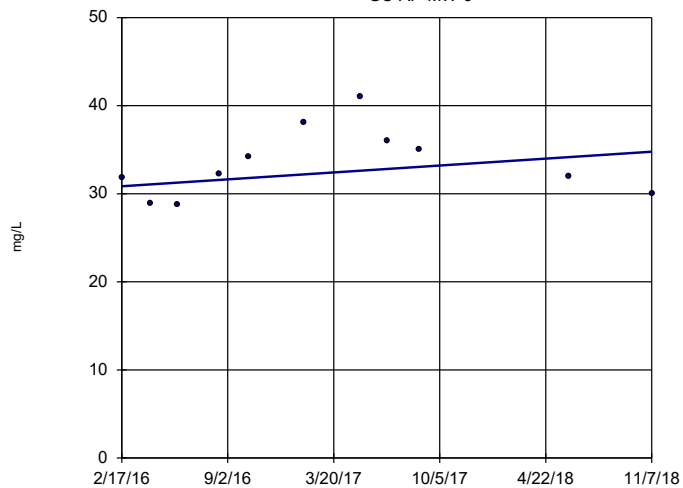


n = 11
Slope = 0.784
units per year.
Mann-Kendall
statistic = 22
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-6

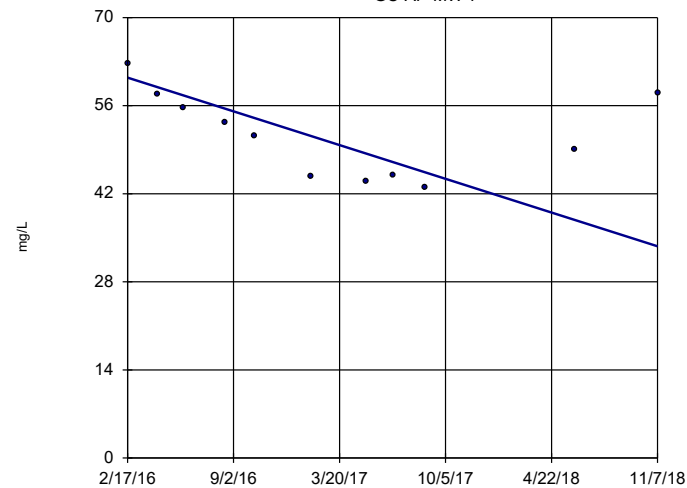


n = 11
Slope = 1.443
units per year.
Mann-Kendall
statistic = 11
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7

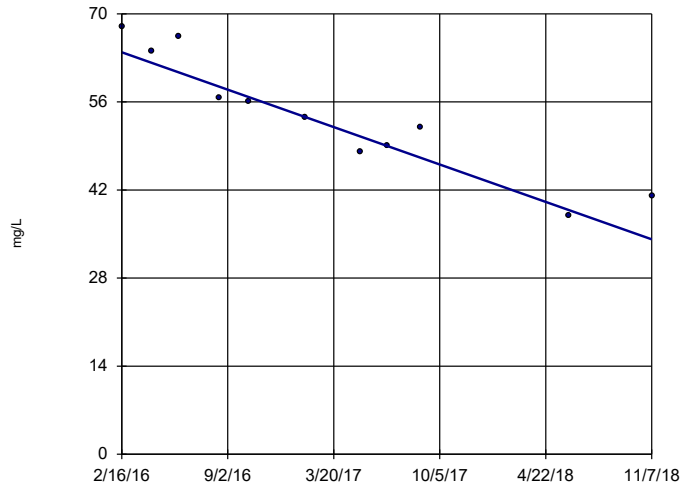


n = 11
Slope = -9.845
units per year.
Mann-Kendall
statistic = -25
critical = -34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

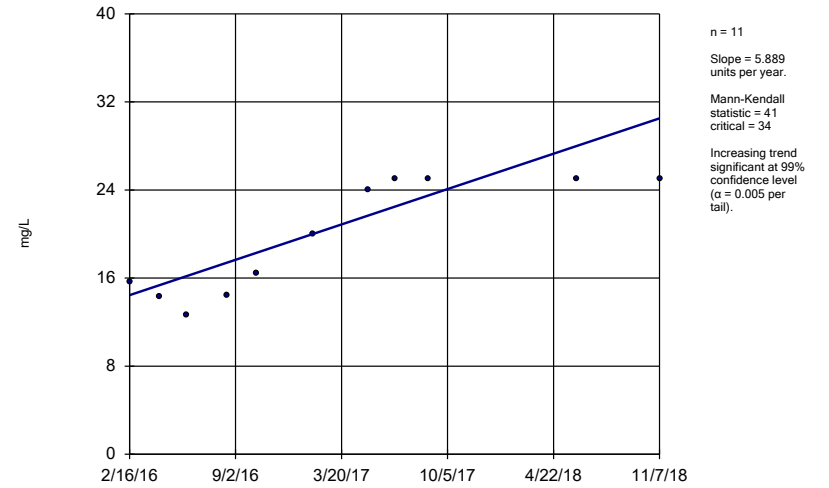
GC-AP-MW-8



Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

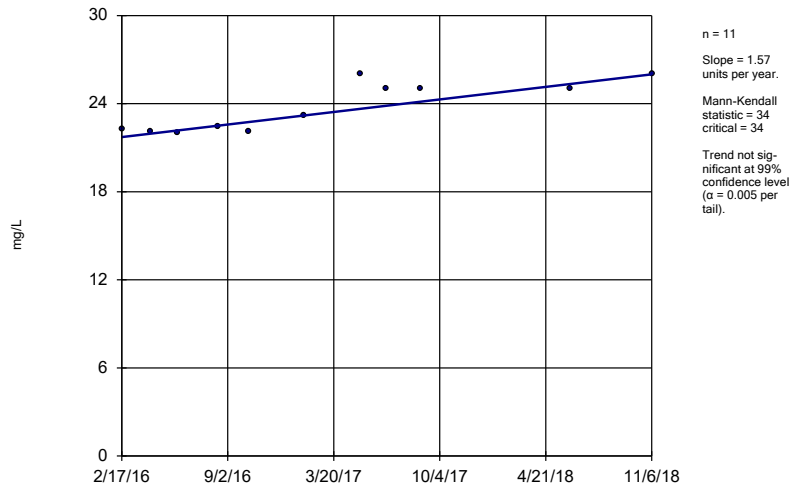
GC-AP-MW-9



Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

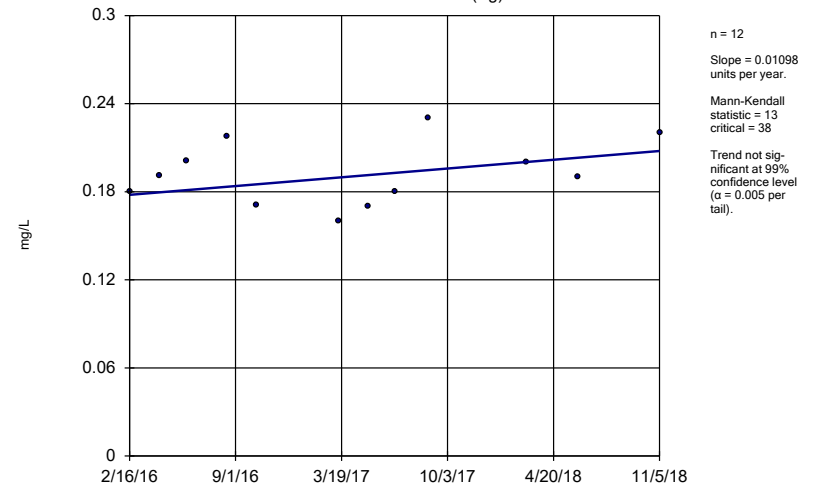
GC-AP-MW-18



Constituent: Chloride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

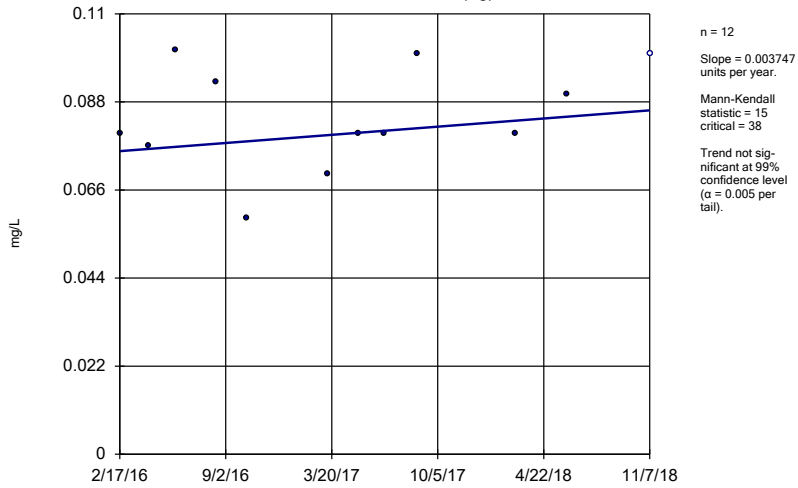
Sen's Slope Estimator

GC-AP-MW-21 (Bg)



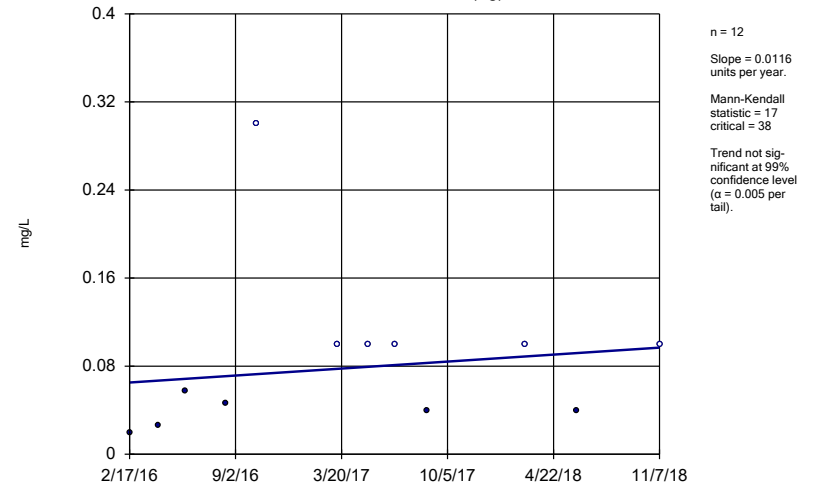
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-23 (Bg)



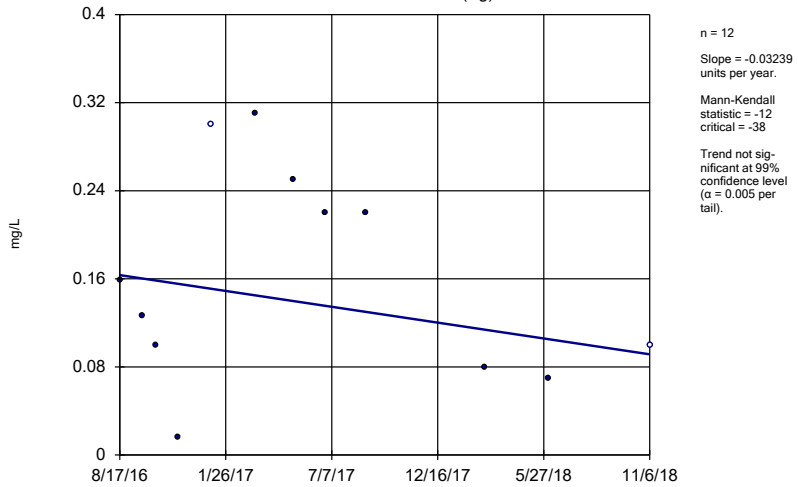
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (Bg)



Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-26 (Bg)



Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-27 (Bg)



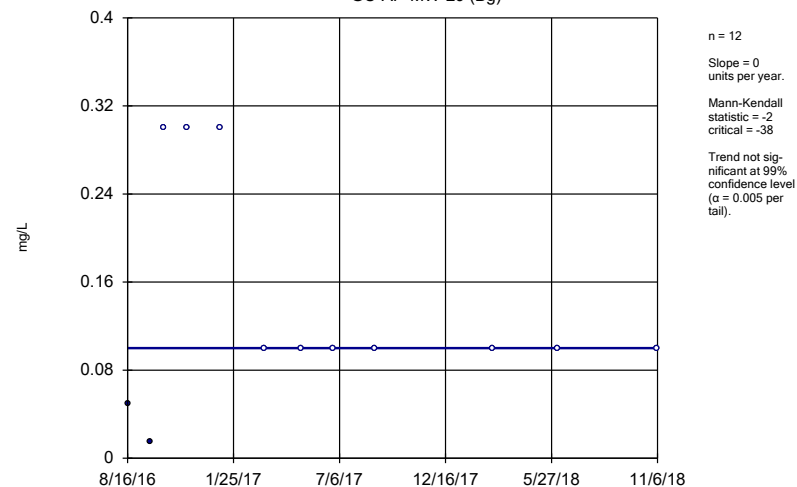
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-28 (Bg)



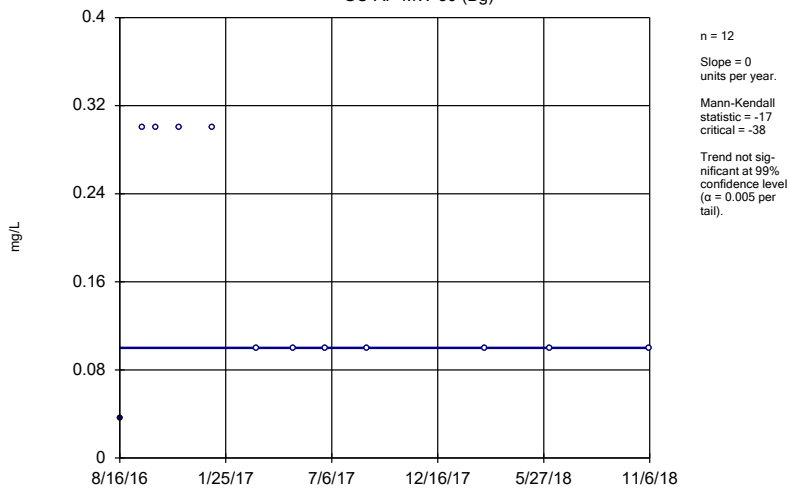
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-29 (Bg)



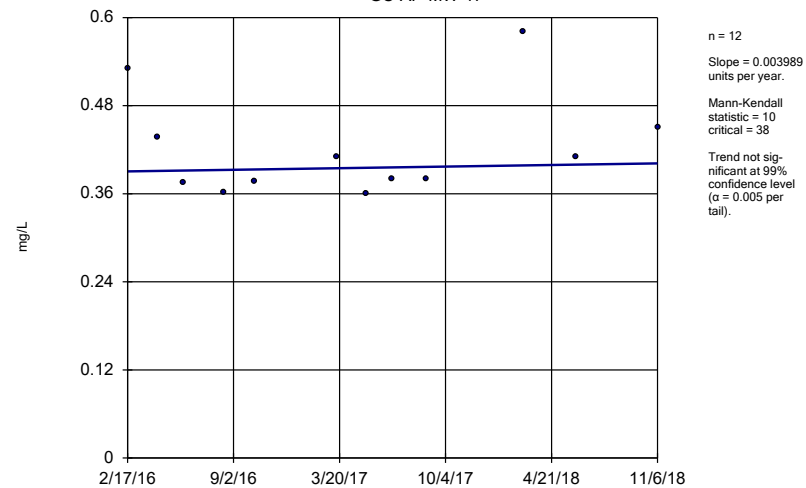
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-30 (Bg)



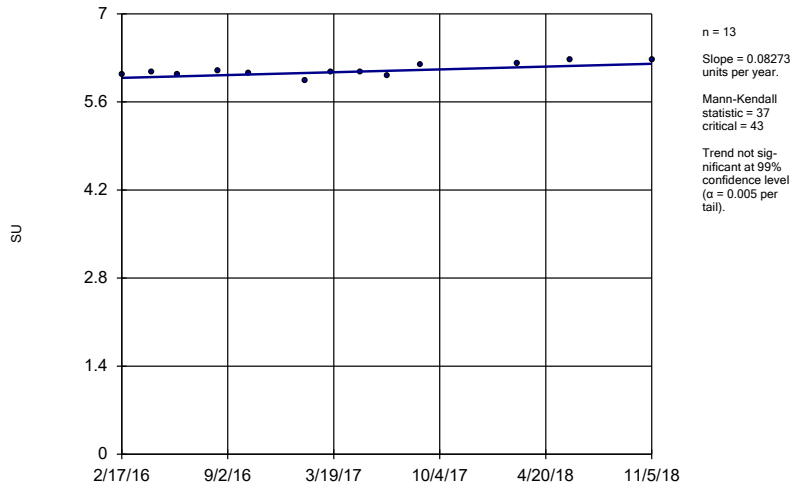
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-17



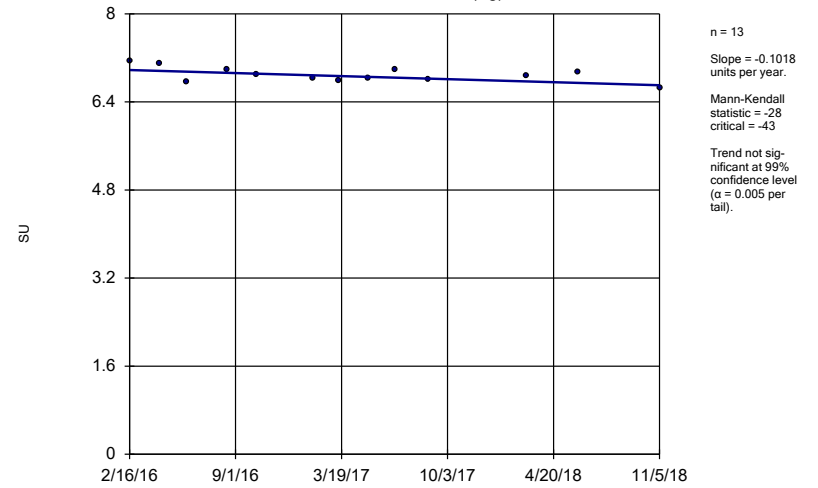
Constituent: Fluoride Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-11



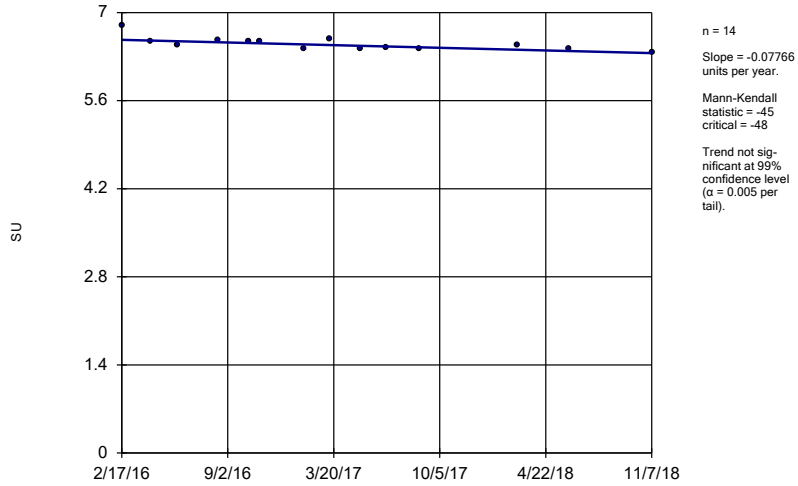
Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-21 (Bg)



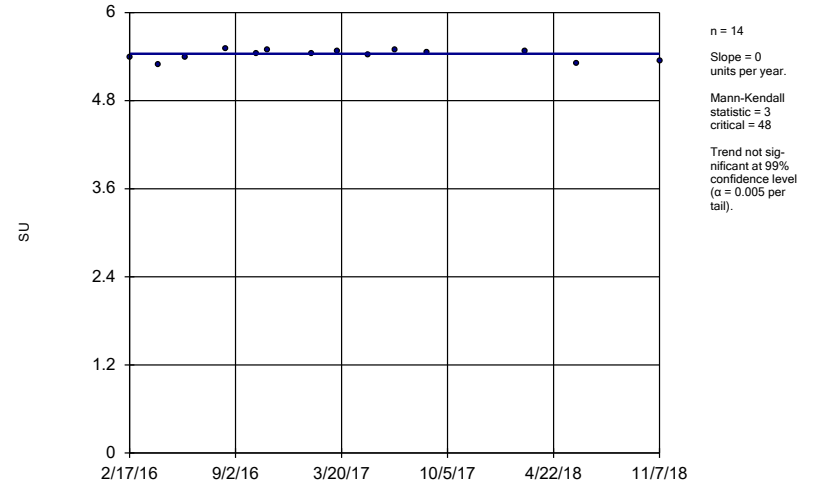
Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-23 (Bg)



Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

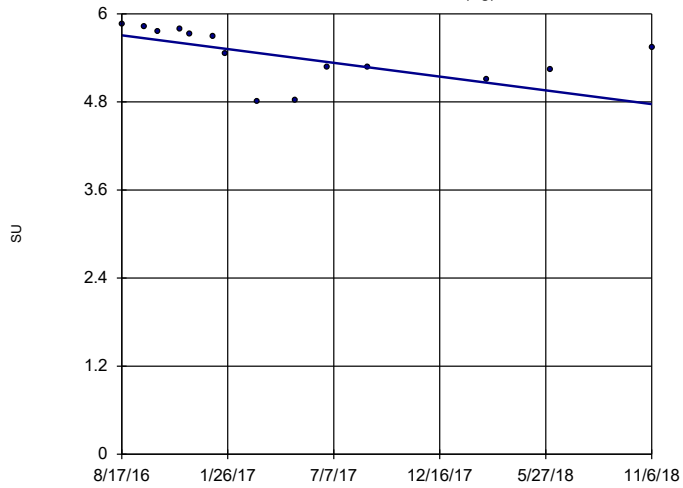
Sen's Slope Estimator
GC-AP-MW-24 (Bg)



Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

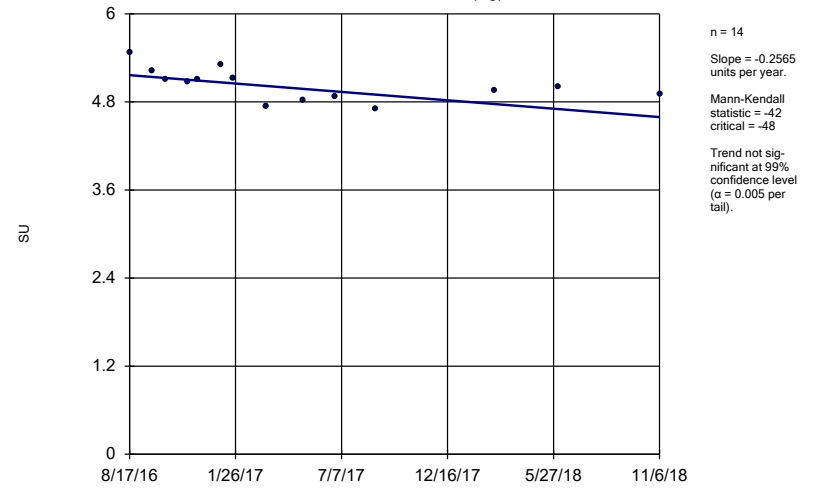
GC-AP-MW-26 (Bg)



Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

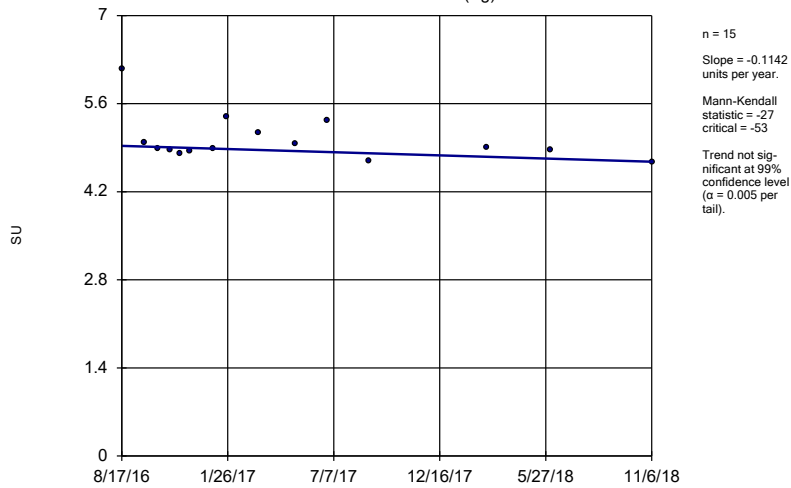
GC-AP-MW-27 (Bg)



Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

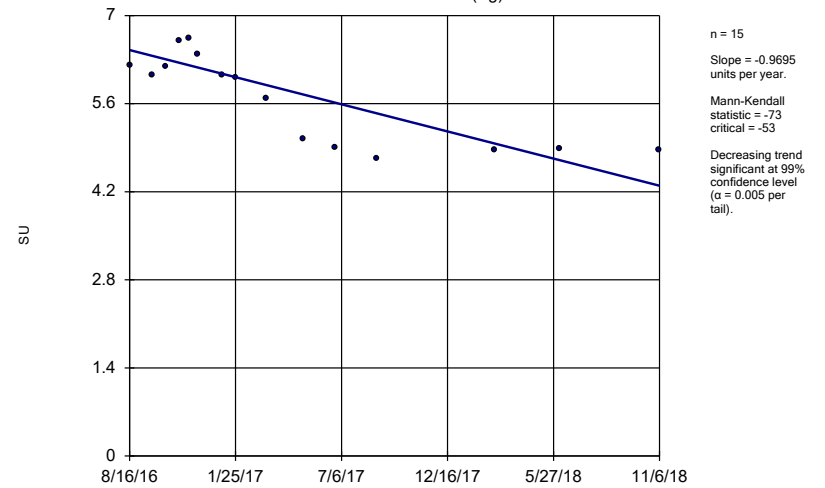
GC-AP-MW-28 (Bg)



Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

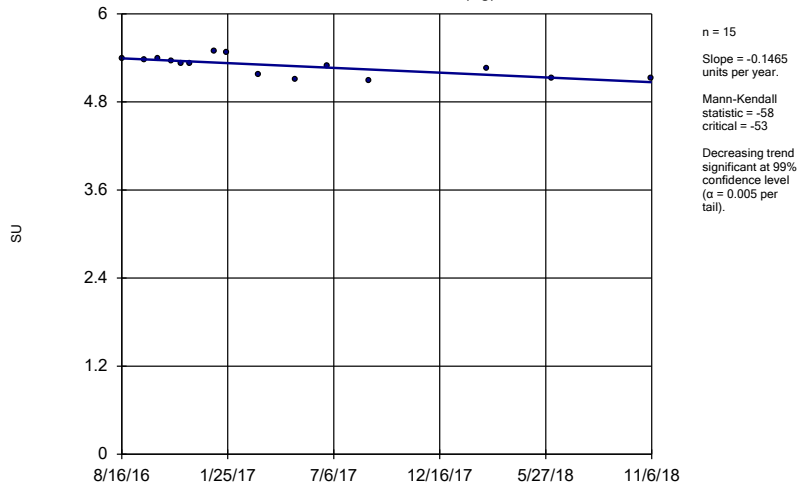
Sen's Slope Estimator

GC-AP-MW-29 (Bg)



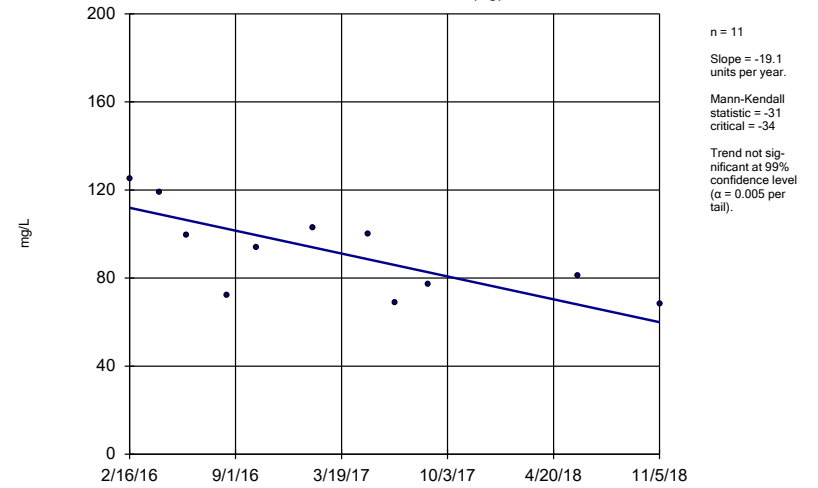
Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-30 (Bg)



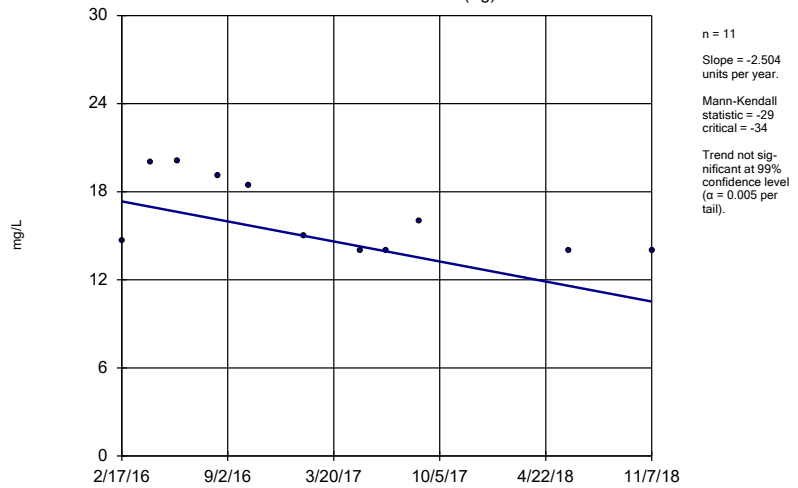
Constituent: pH Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-21 (Bg)



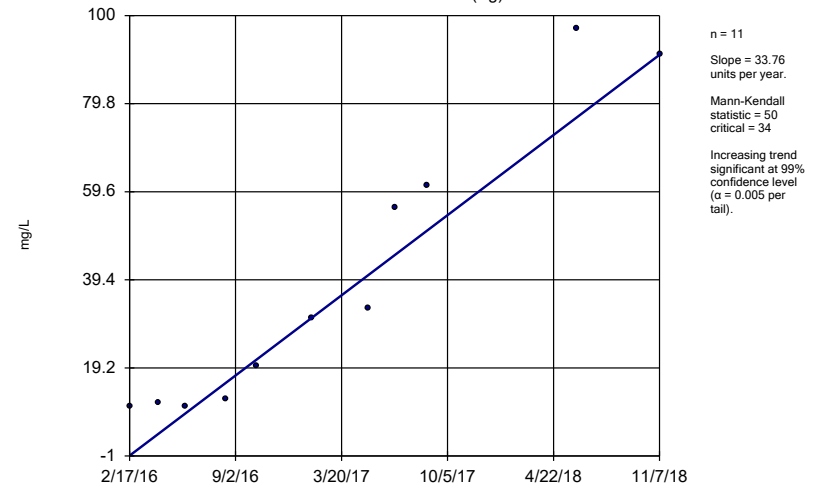
Constituent: Sulfate Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-23 (Bg)



Constituent: Sulfate Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

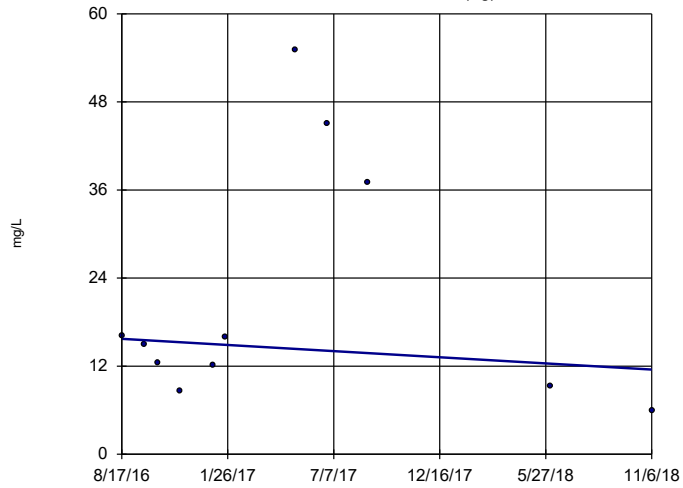
Sen's Slope Estimator
GC-AP-MW-24 (Bg)



Constituent: Sulfate Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (Bg)



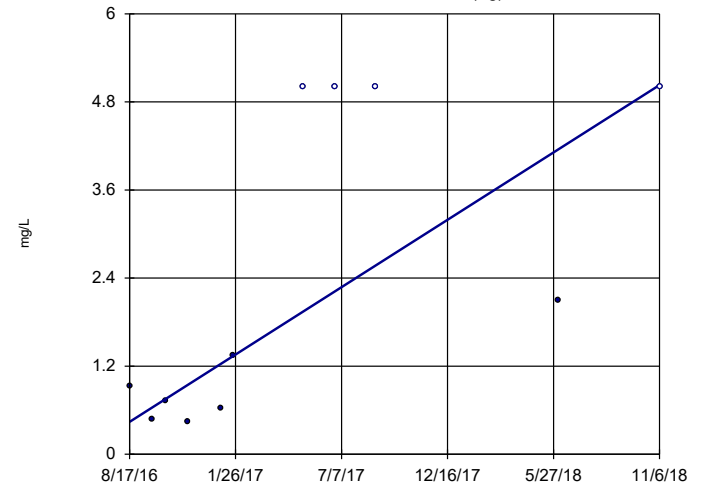
n = 11
Slope = -1.883
units per year.
Mann-Kendall
statistic = -7
critical = -34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (Bg)

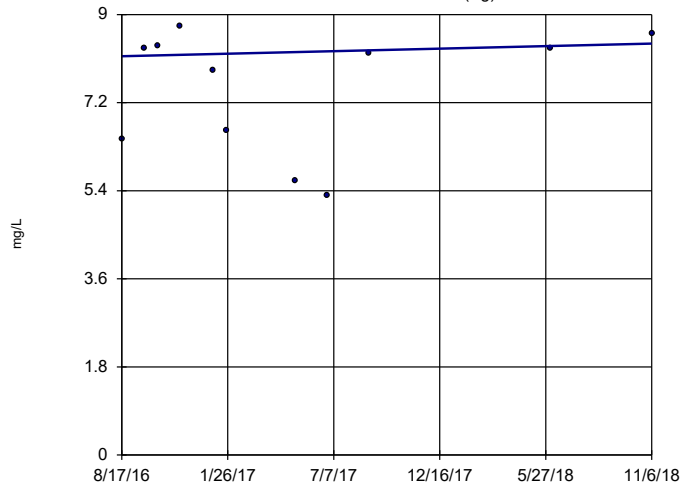


n = 11
Slope = 2.066
units per year.
Mann-Kendall
statistic = 29
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 1/10/2019 4:08 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (Bg)



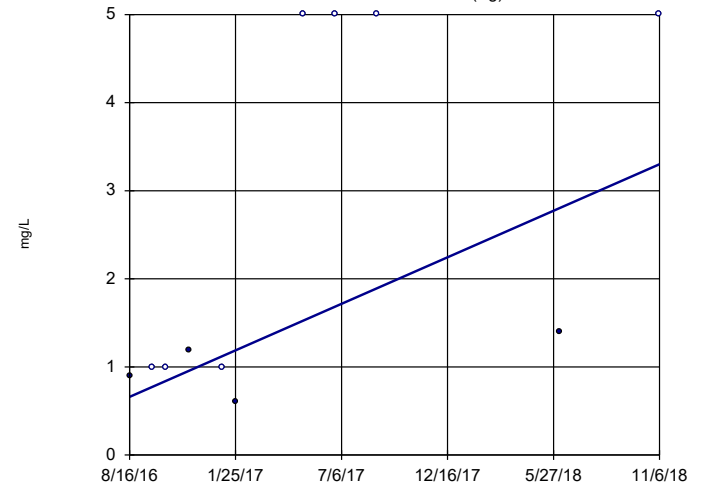
n = 11
Slope = 0.116
units per year.
Mann-Kendall
statistic = 2
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

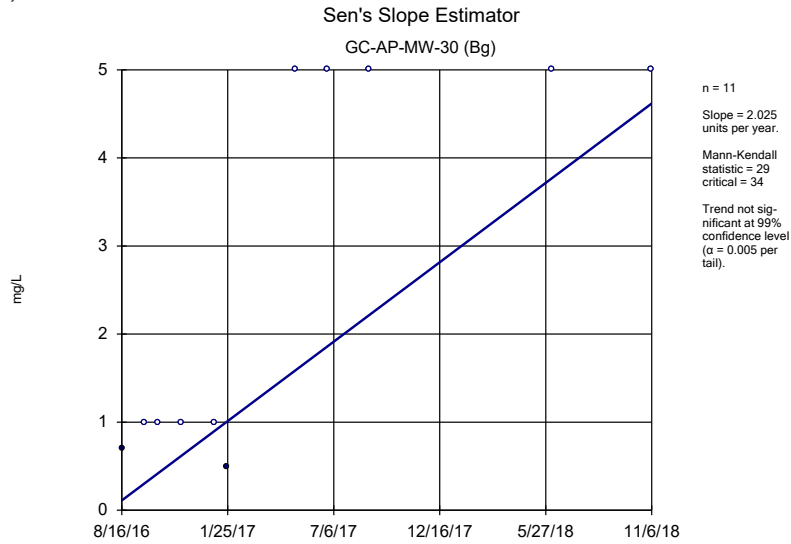
Sen's Slope Estimator

GC-AP-MW-29 (Bg)

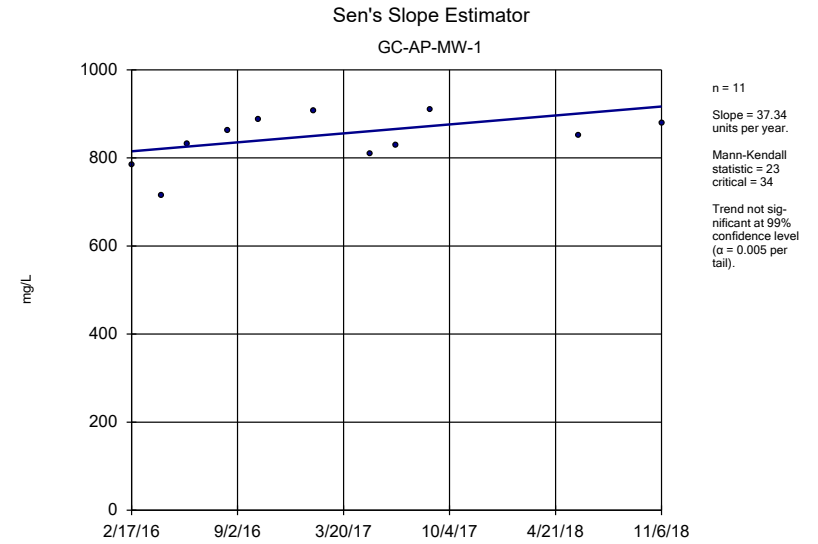


n = 11
Slope = 1.187
units per year.
Mann-Kendall
statistic = 28
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

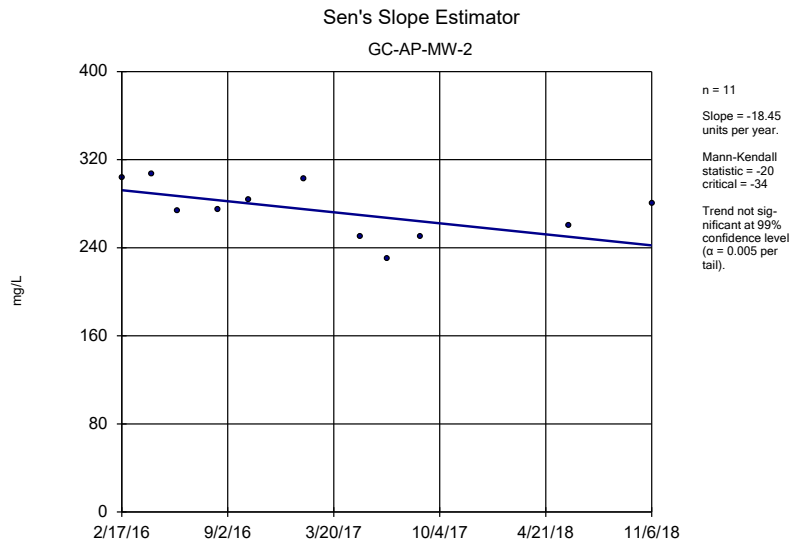
Constituent: Sulfate Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP



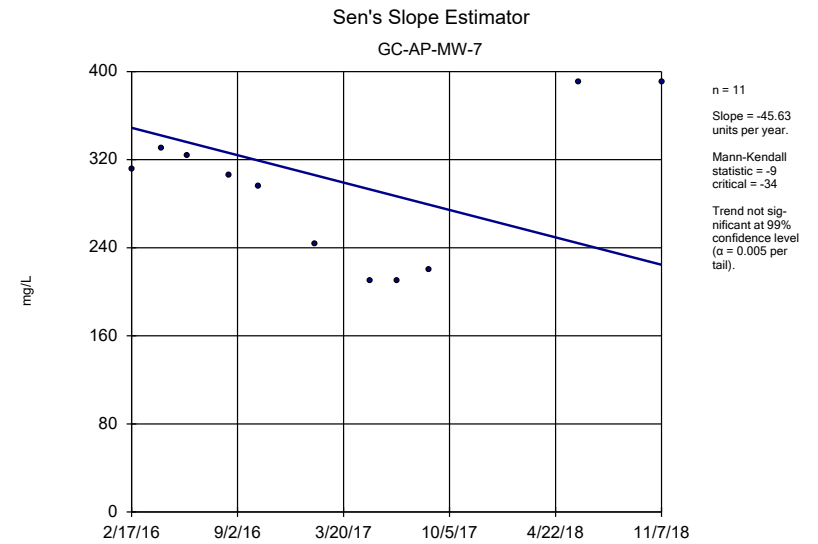
Constituent: Sulfate Analysis Run 1/10/2019 4:09 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP



Constituent: Sulfate Analysis Run 1/10/2019 4:09 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

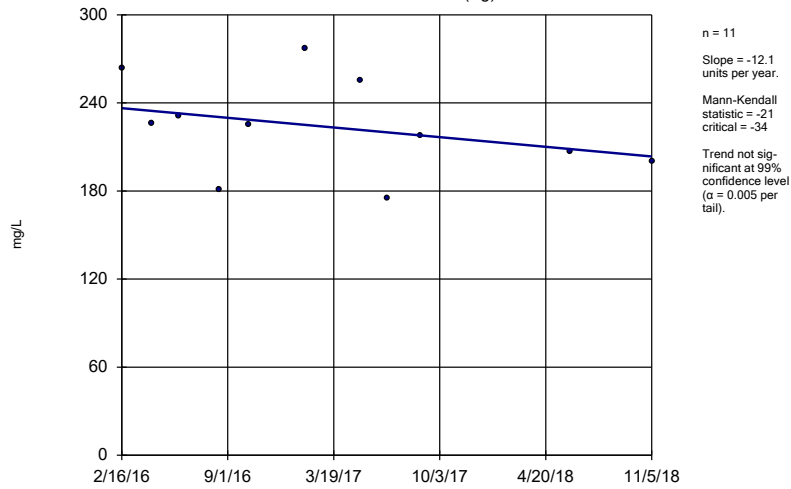


Constituent: Sulfate Analysis Run 1/10/2019 4:09 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP



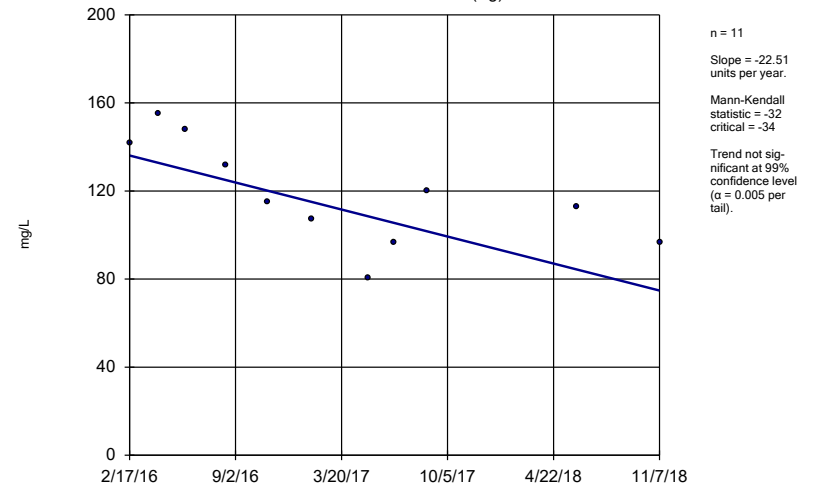
Constituent: Sulfate Analysis Run 1/10/2019 4:09 PM View: Trend Tests
 Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-21 (Bg)



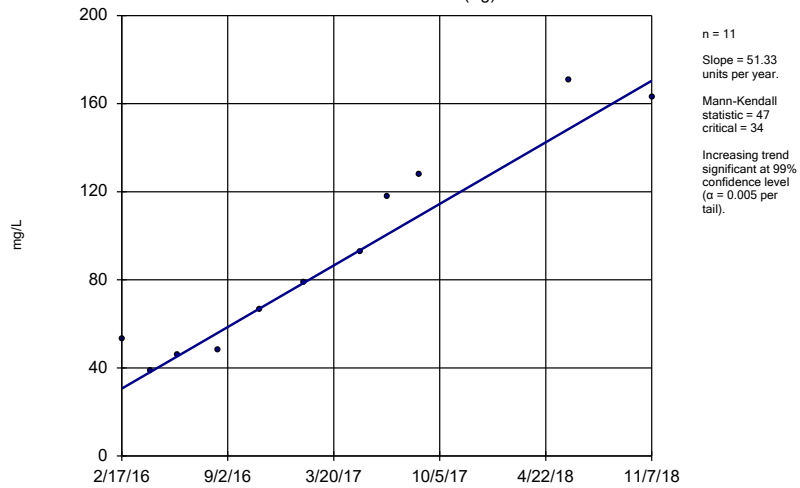
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-23 (Bg)



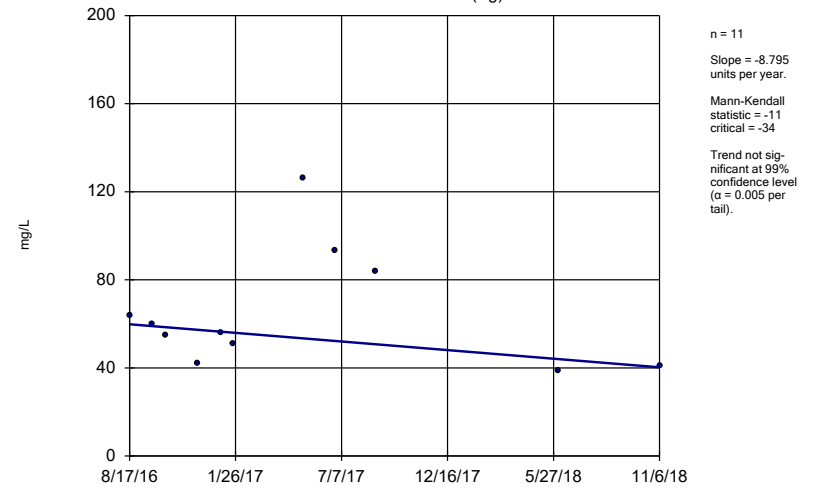
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (Bg)



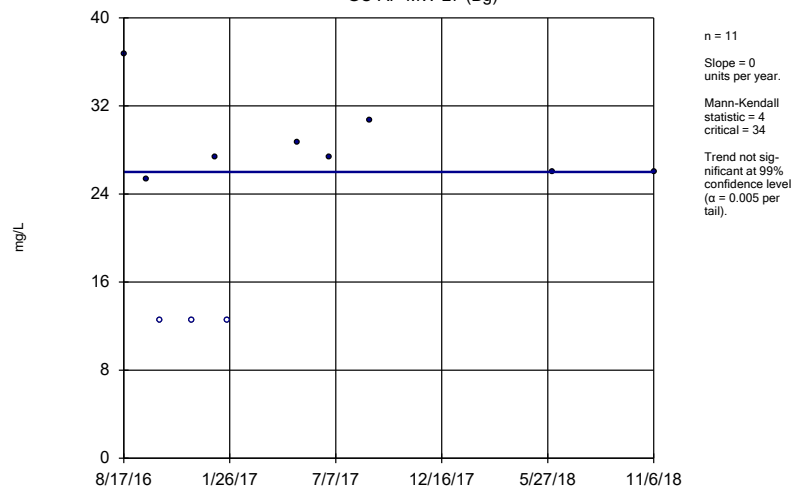
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-26 (Bg)



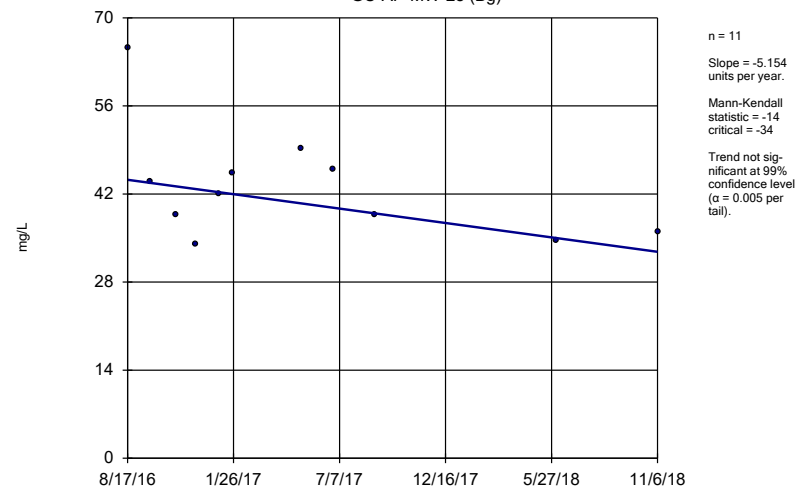
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-27 (Bg)



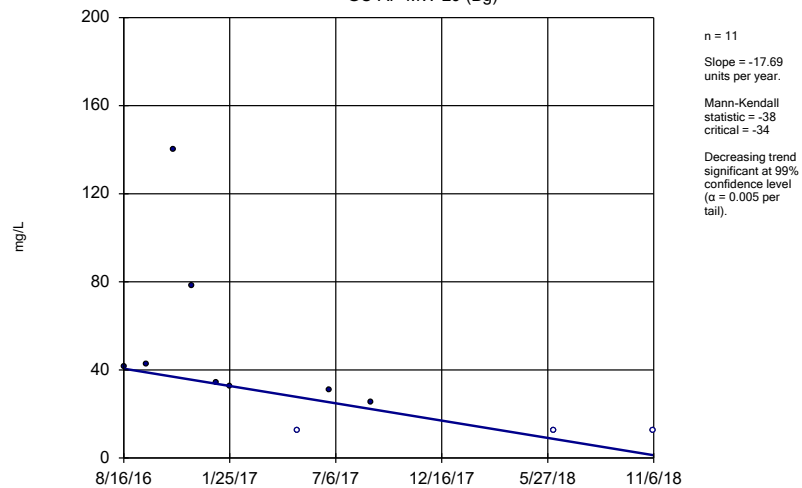
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-28 (Bg)



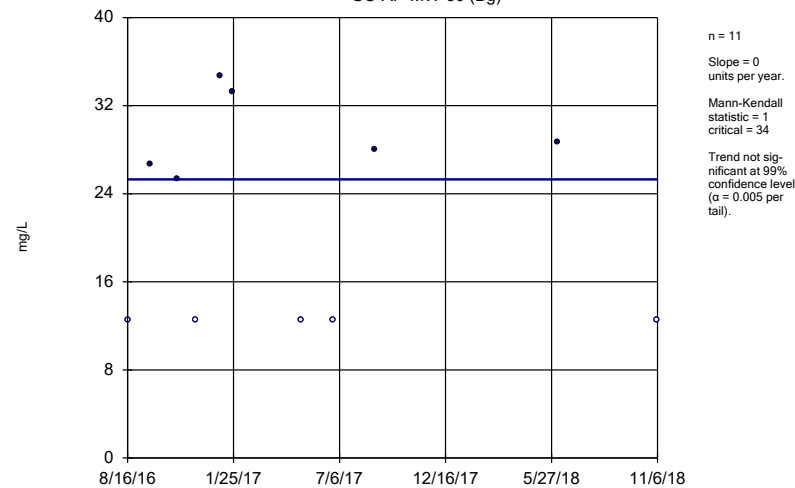
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-29 (Bg)



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

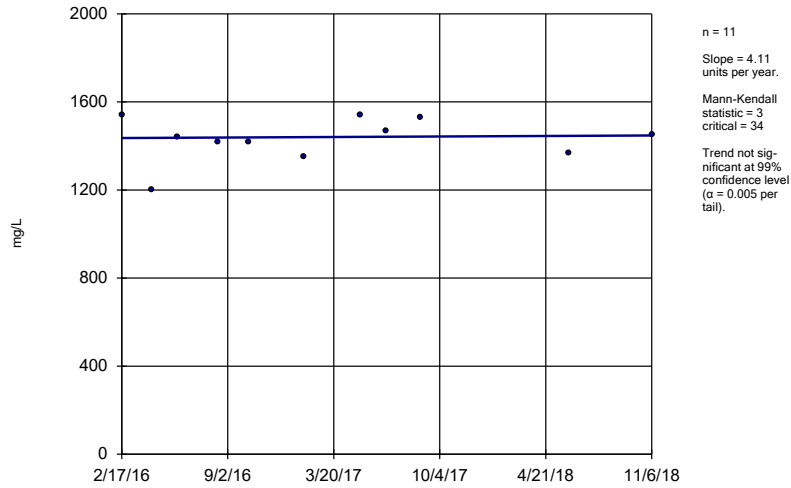
Sen's Slope Estimator
GC-AP-MW-30 (Bg)



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

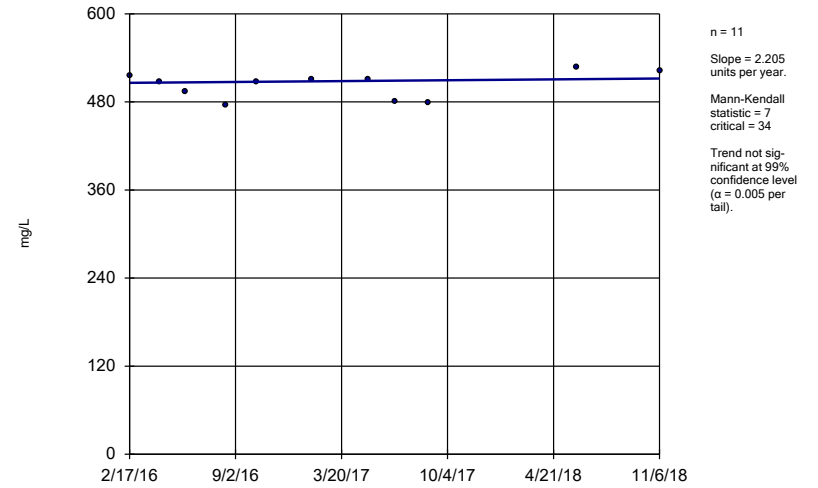
GC-AP-MW-1



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

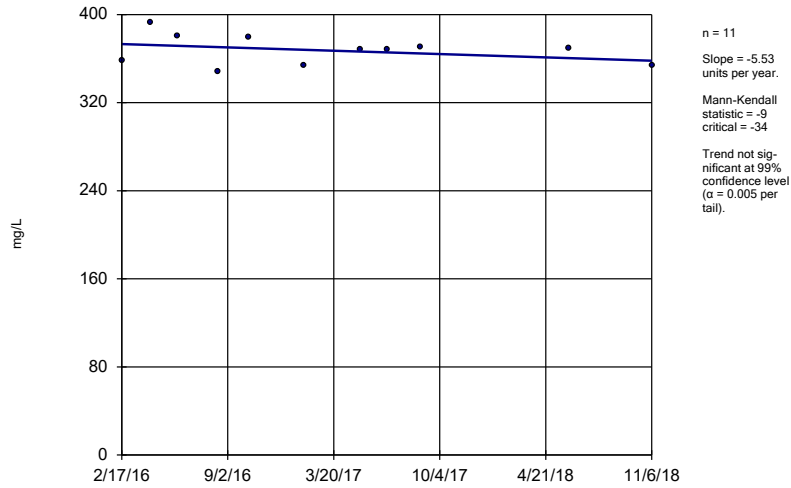
GC-AP-MW-2



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

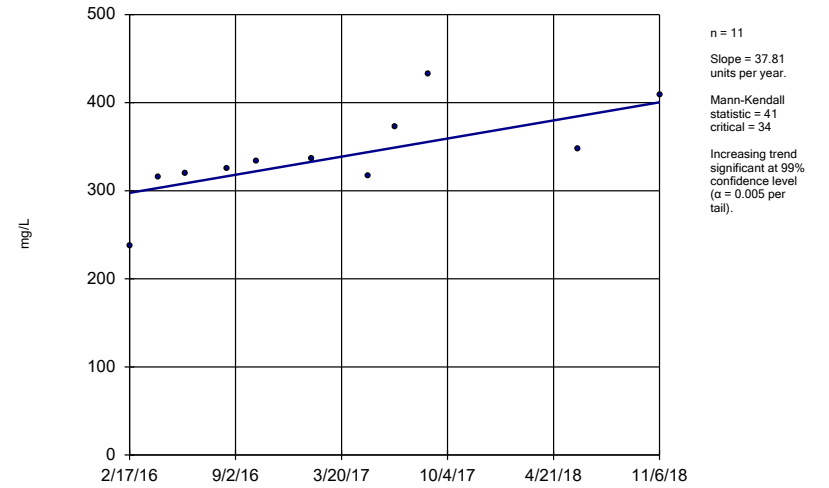
GC-AP-MW-3



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

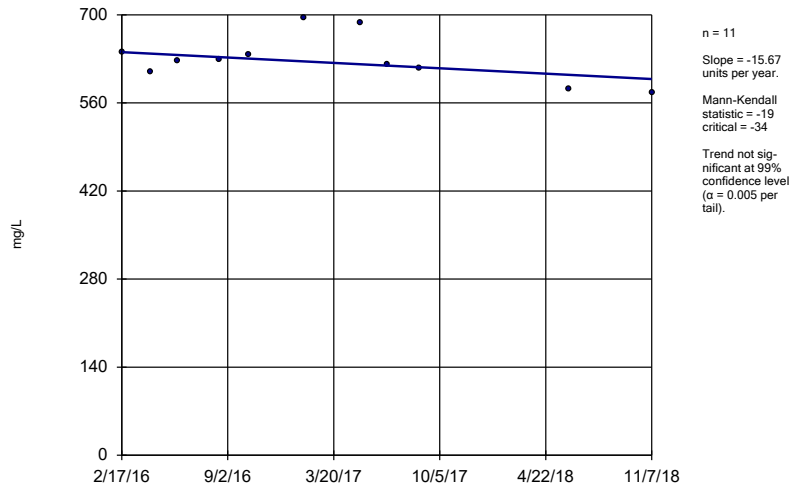
GC-AP-MW-5



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

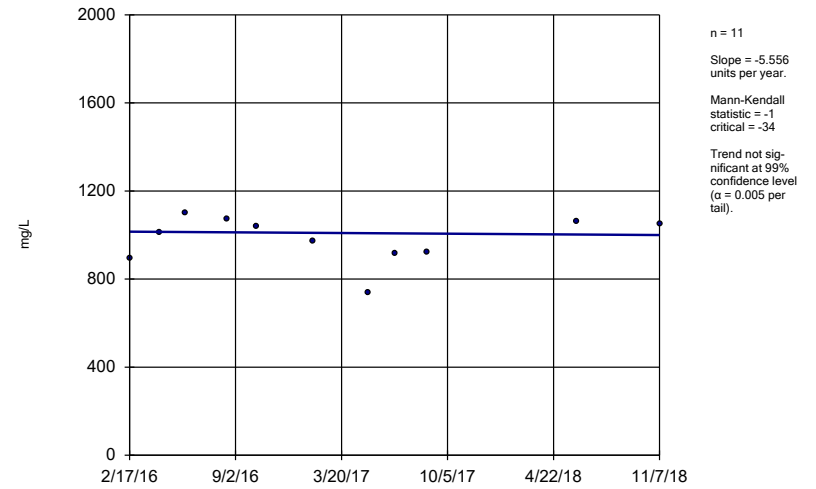
GC-AP-MW-6



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

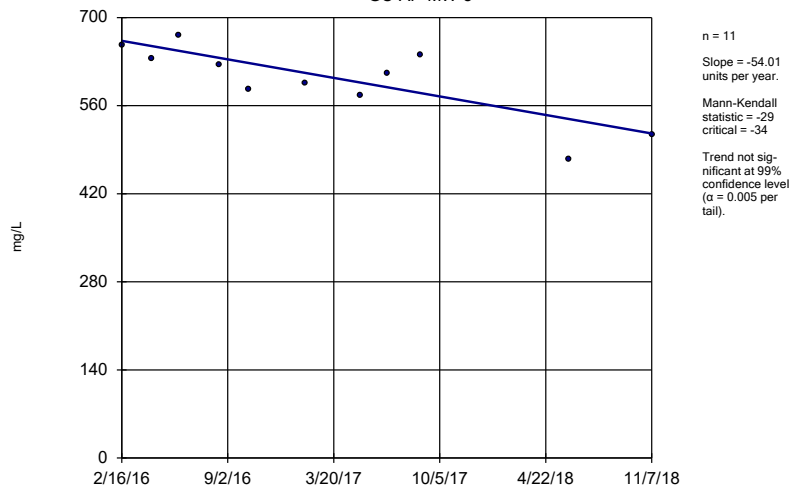
GC-AP-MW-7



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

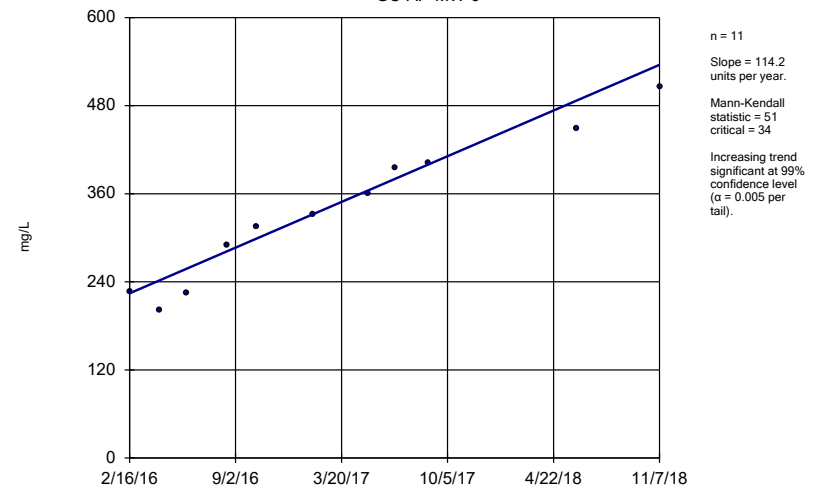
GC-AP-MW-8



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

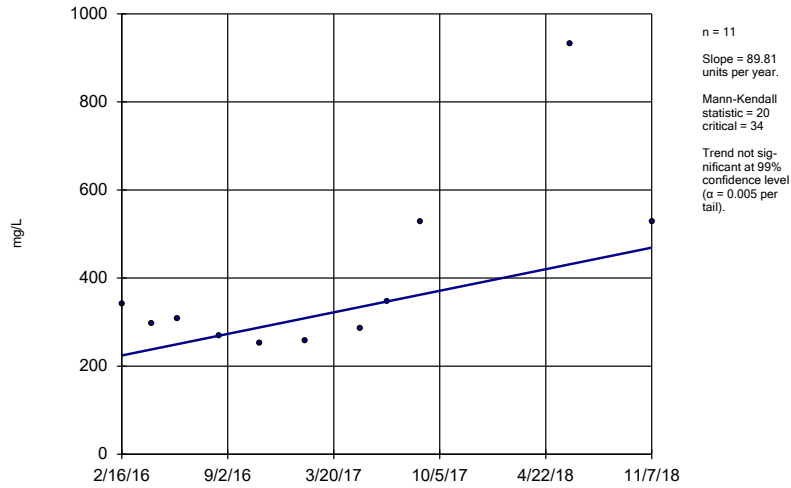
GC-AP-MW-9



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

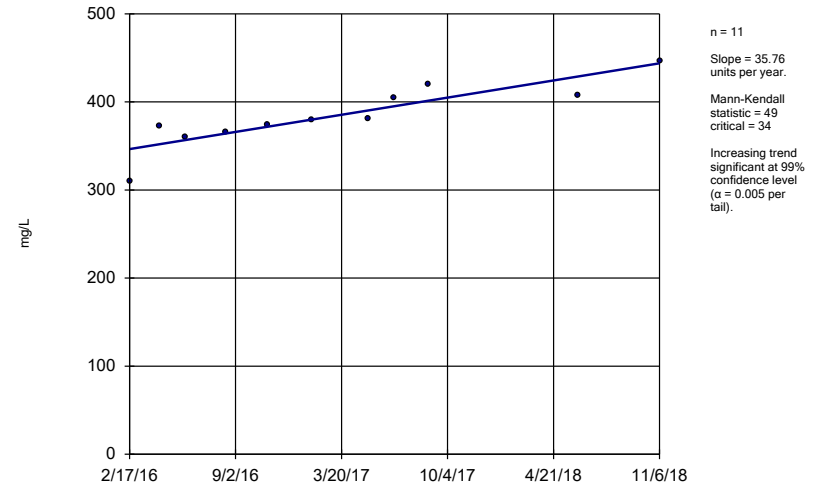
GC-AP-MW-14



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

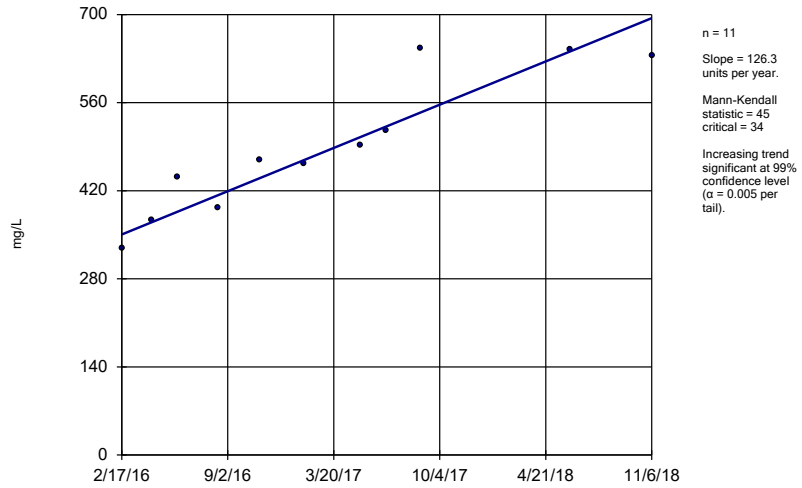
GC-AP-MW-16



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

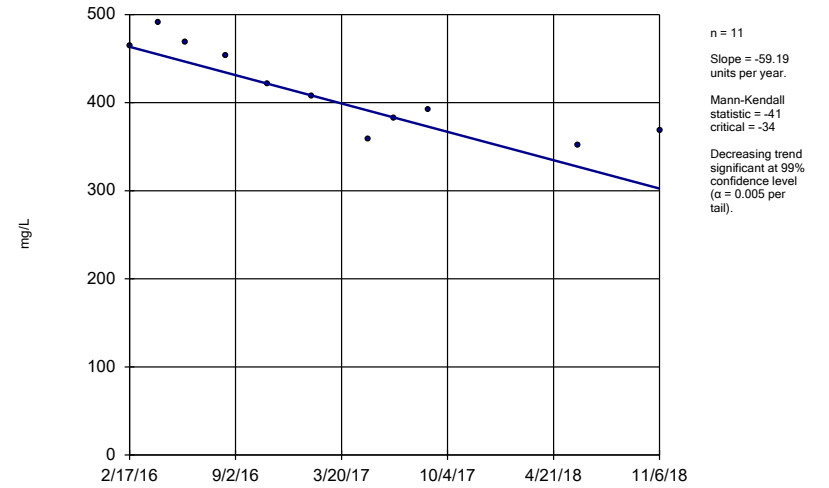
GC-AP-MW-17



Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

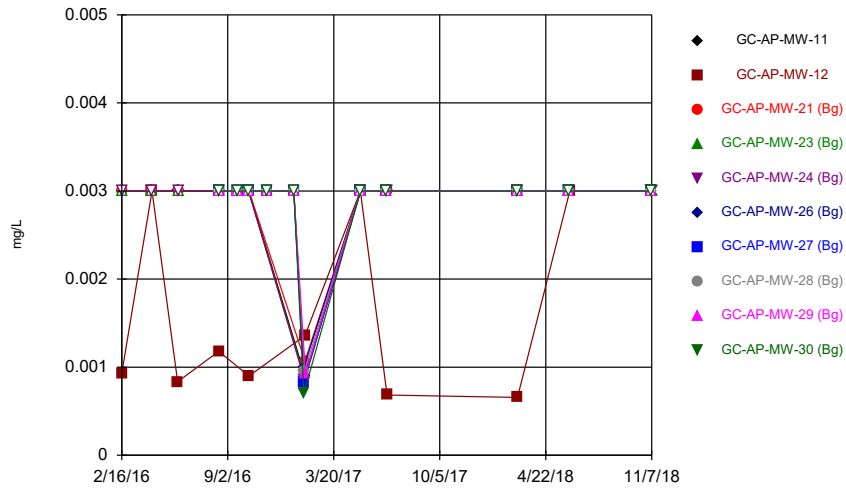
Sen's Slope Estimator

GC-AP-MW-18



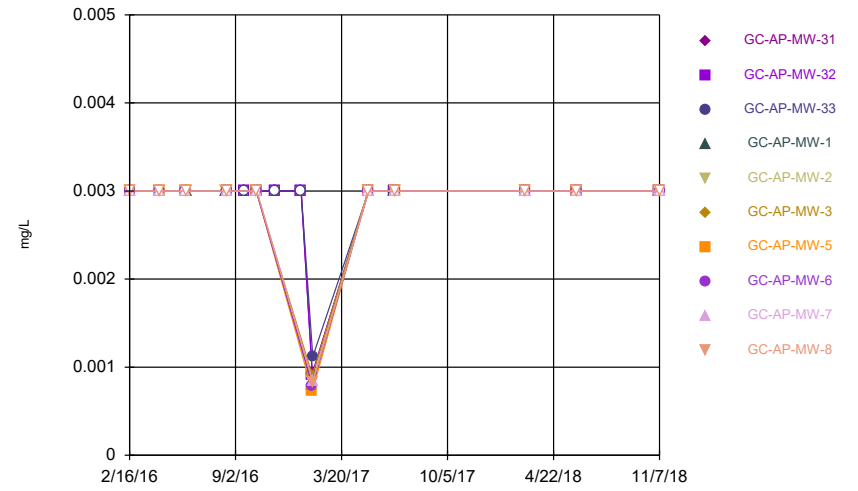
Constituent: TDS Analysis Run 1/10/2019 4:09 PM View: Trend Tests
Greene County Client: Southern Company Data: Greene County AP

Time Series



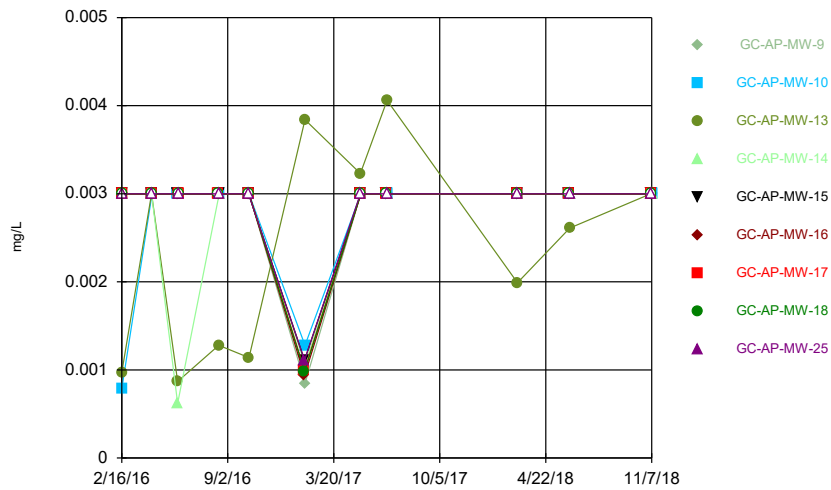
Constituent: Antimony Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



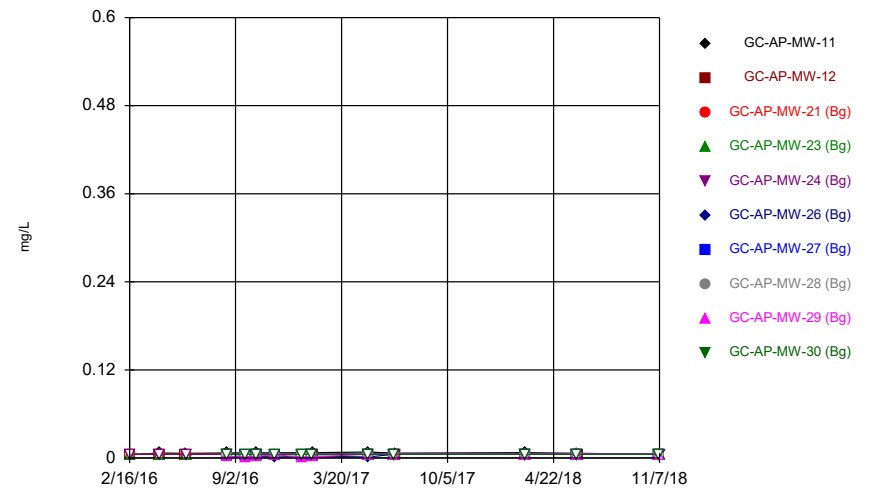
Constituent: Antimony Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



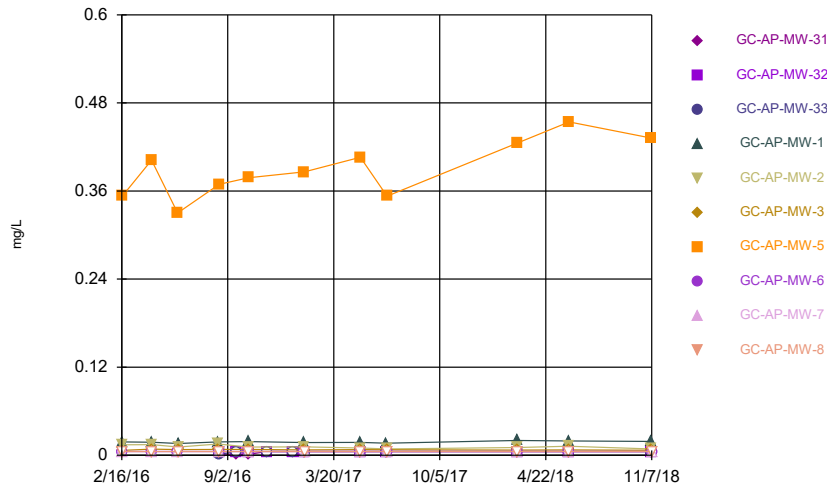
Constituent: Antimony Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



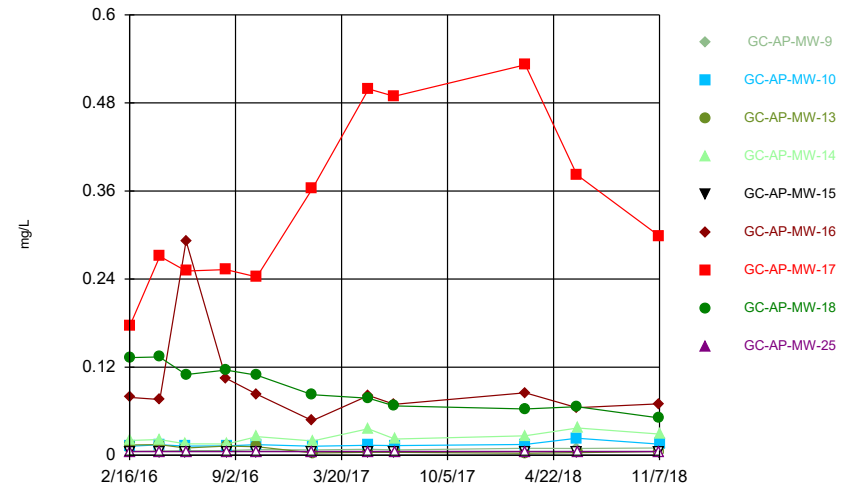
Constituent: Arsenic Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



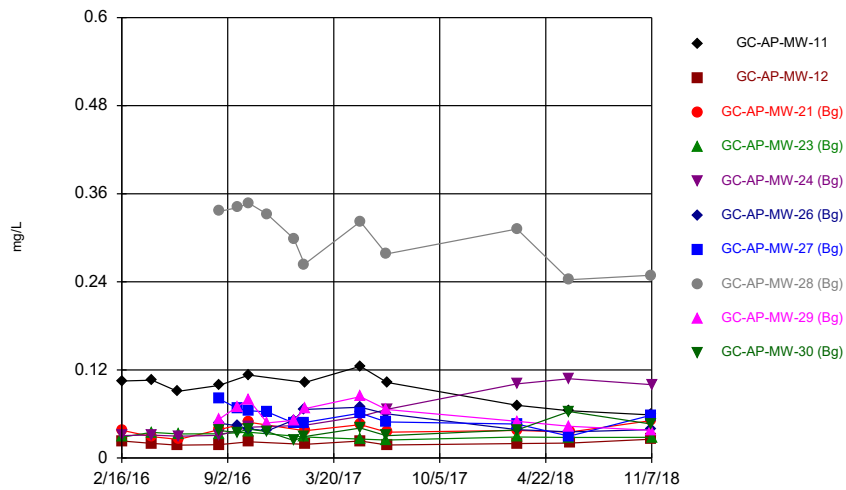
Constituent: Arsenic Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



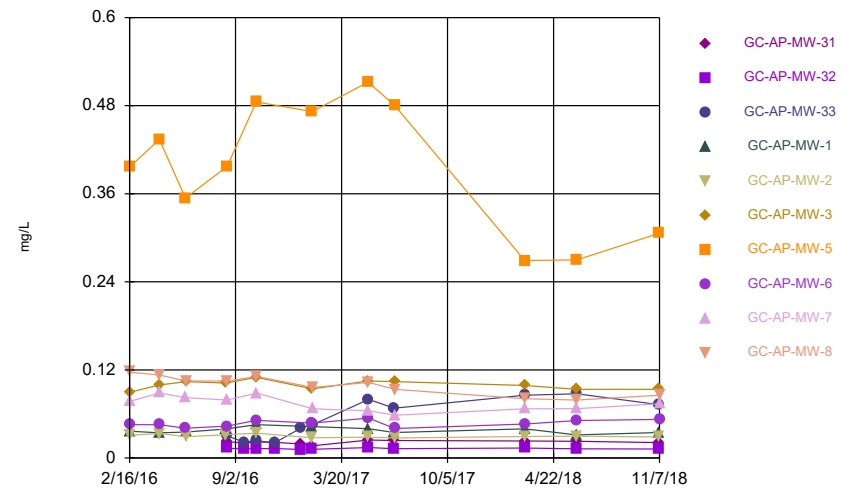
Constituent: Arsenic Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



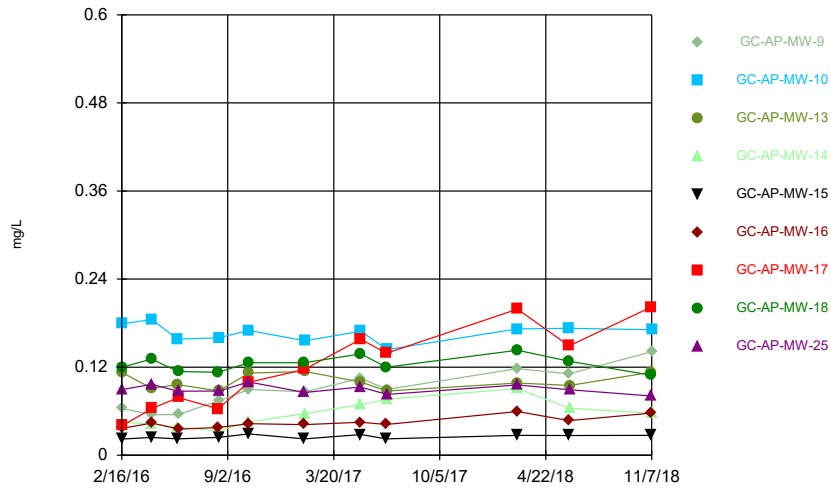
Constituent: Barium Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



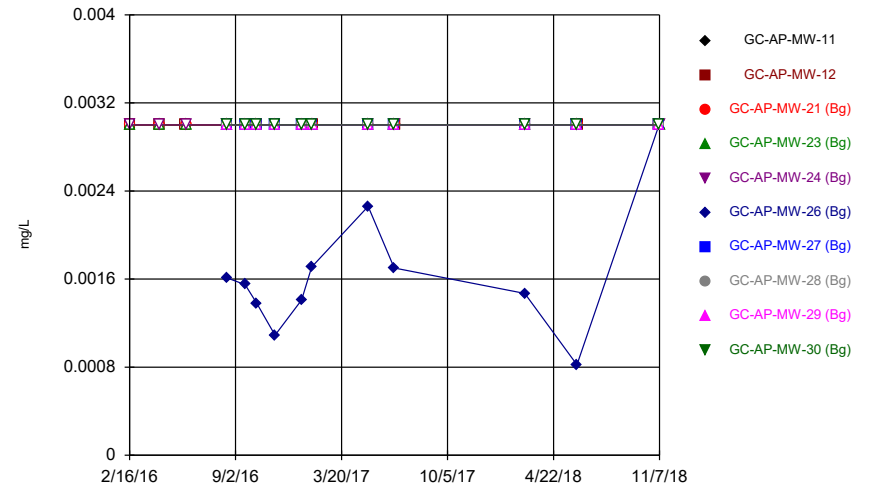
Constituent: Barium Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



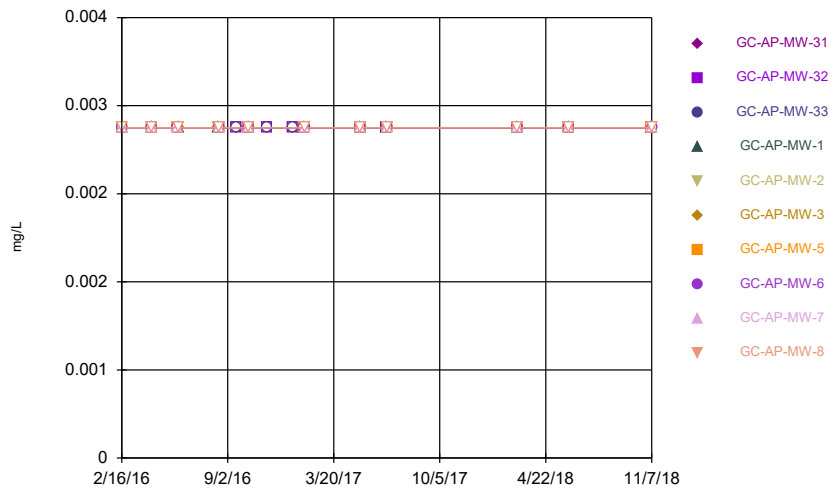
Constituent: Barium Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



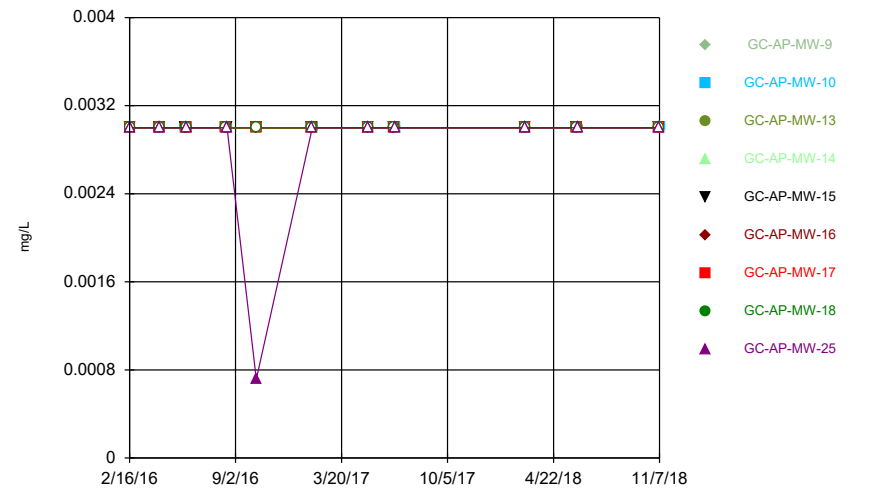
Constituent: Beryllium Analysis Run 1/10/2019 4:18 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



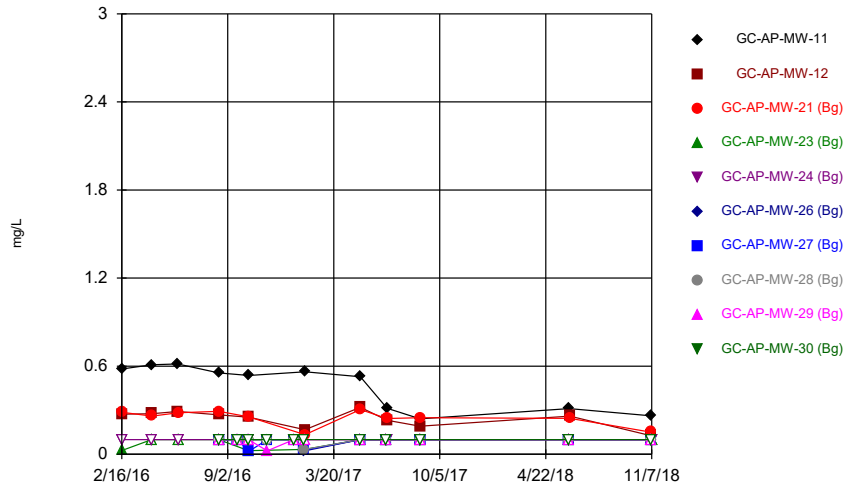
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Greene County Client: Southern Company Data: Greene County AP

Time Series



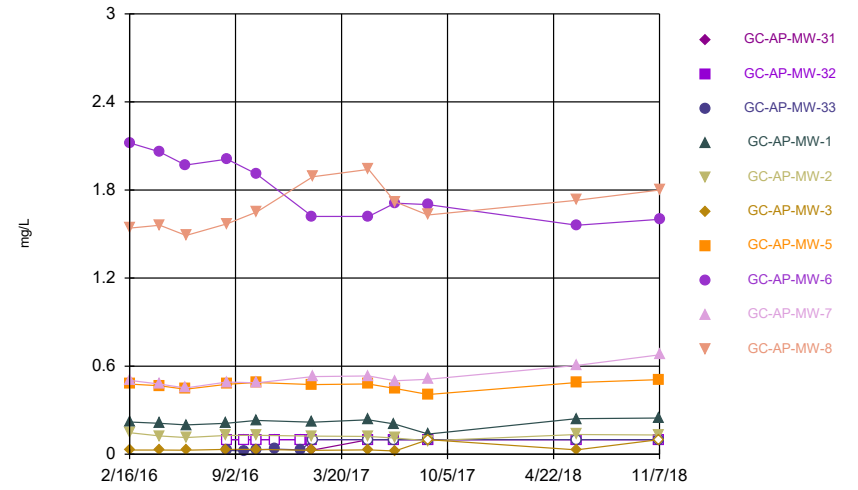
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Greene County Client: Southern Company Data: Greene County AP

Time Series



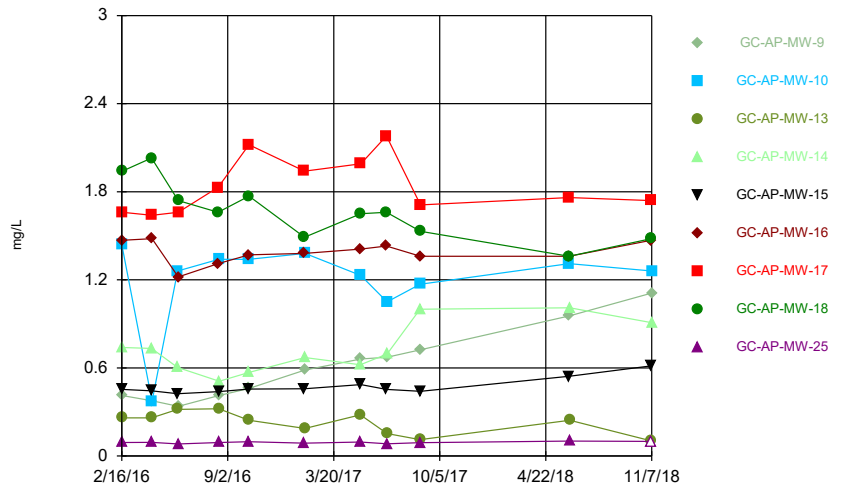
Constituent: Boron Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



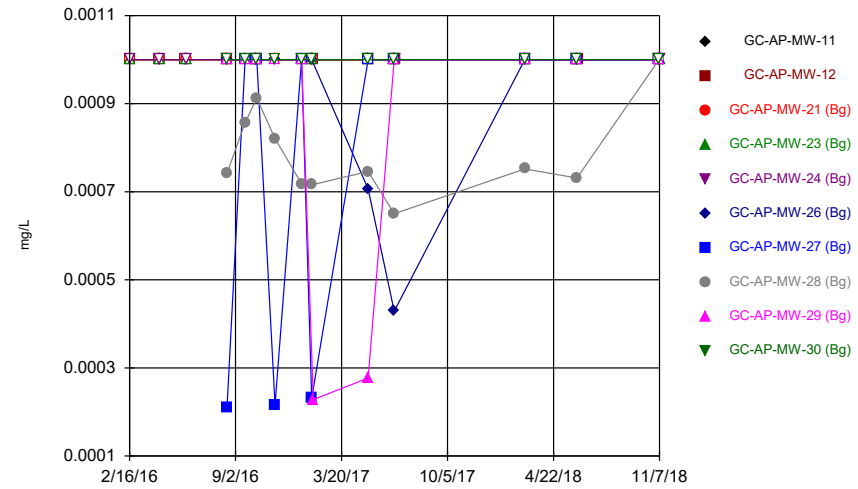
Constituent: Boron Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



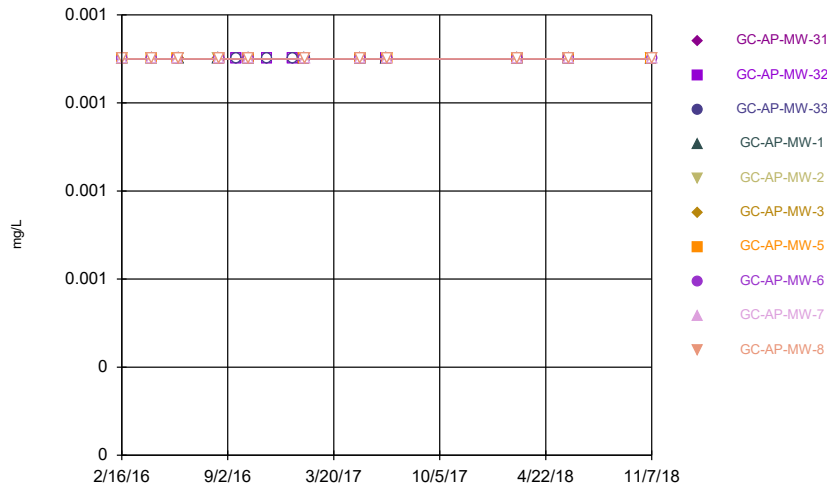
Constituent: Boron Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



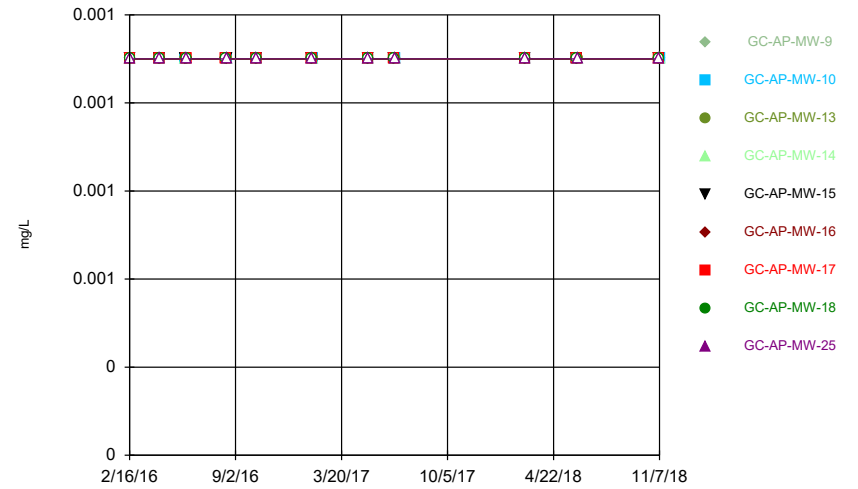
Constituent: Cadmium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



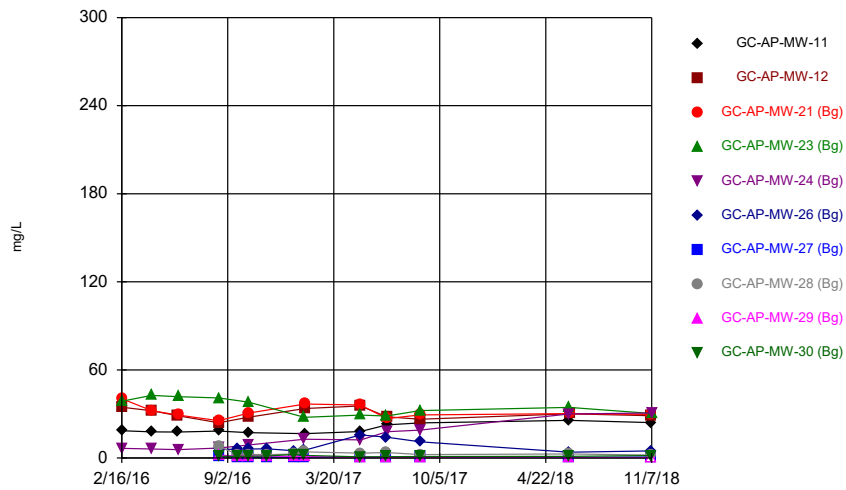
Constituent: Cadmium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



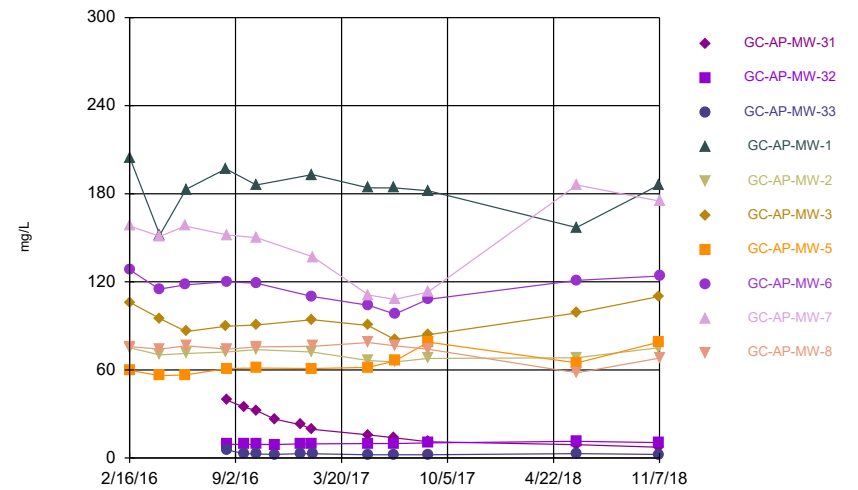
Constituent: Cadmium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



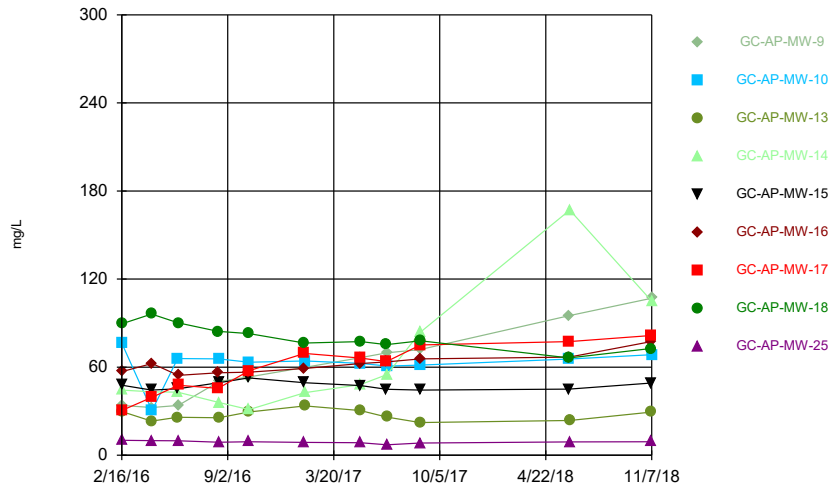
Constituent: Calcium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



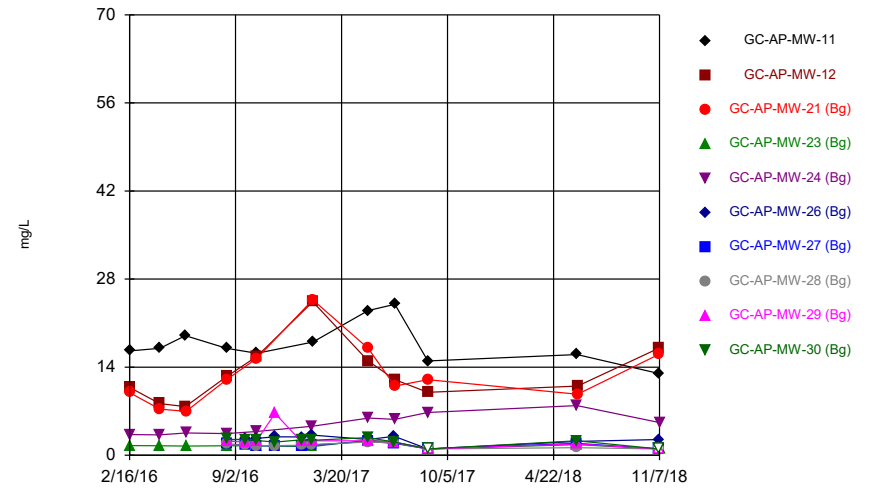
Constituent: Calcium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



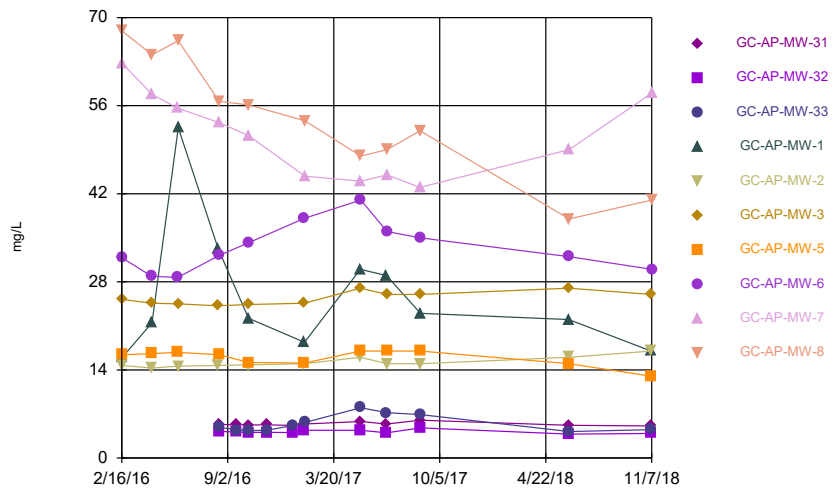
Constituent: Calcium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



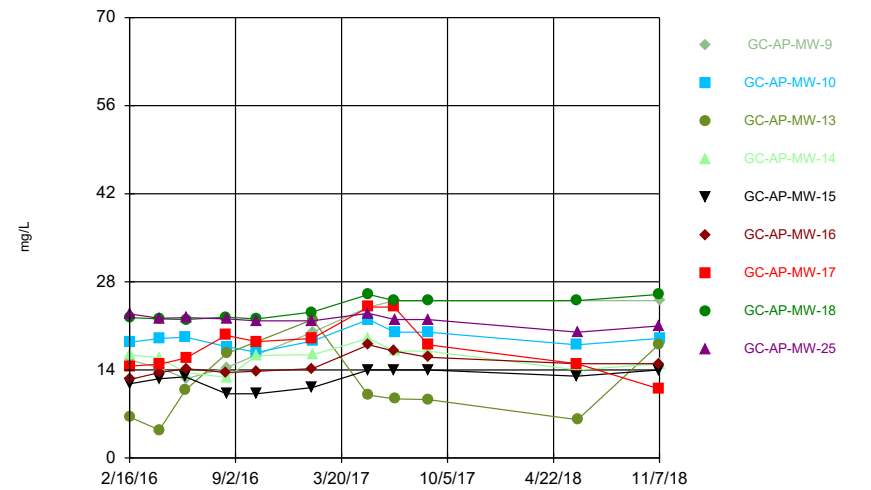
Constituent: Chloride Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



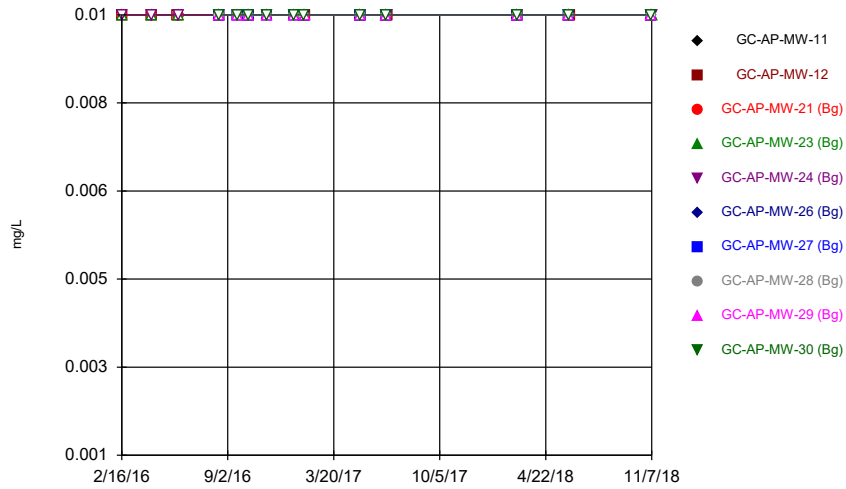
Constituent: Chloride Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



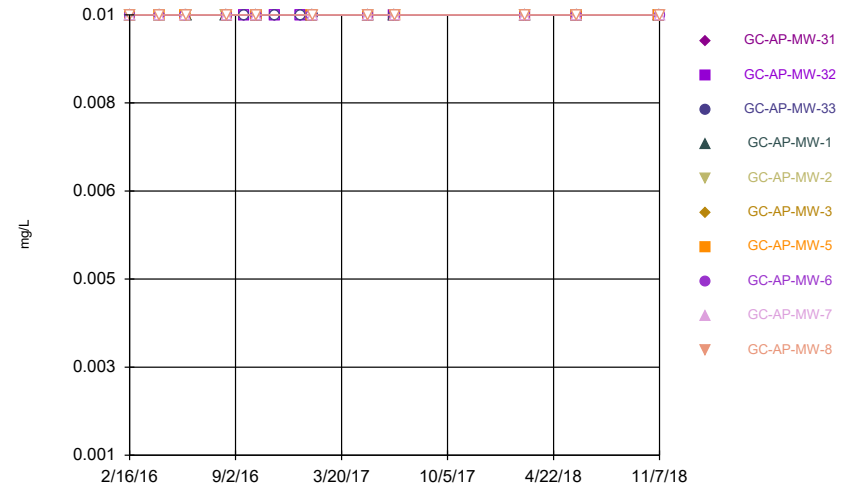
Constituent: Chloride Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



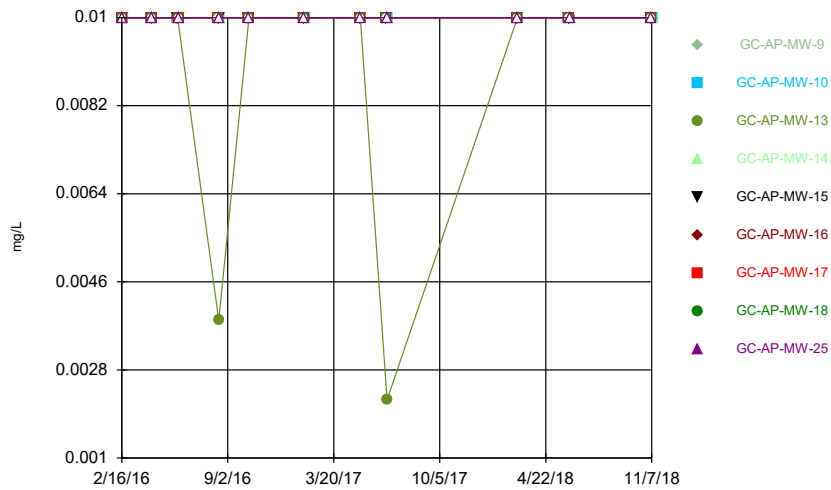
Constituent: Chromium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



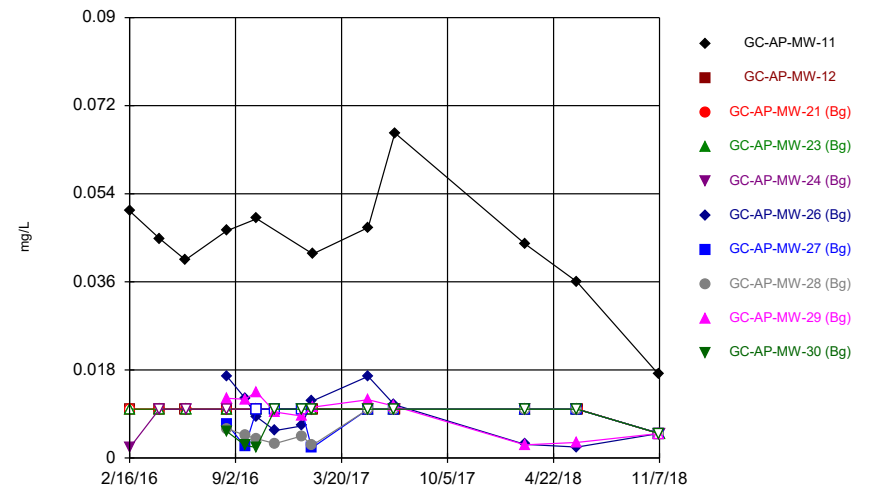
Constituent: Chromium Analysis Run 1/10/2019 4:19 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



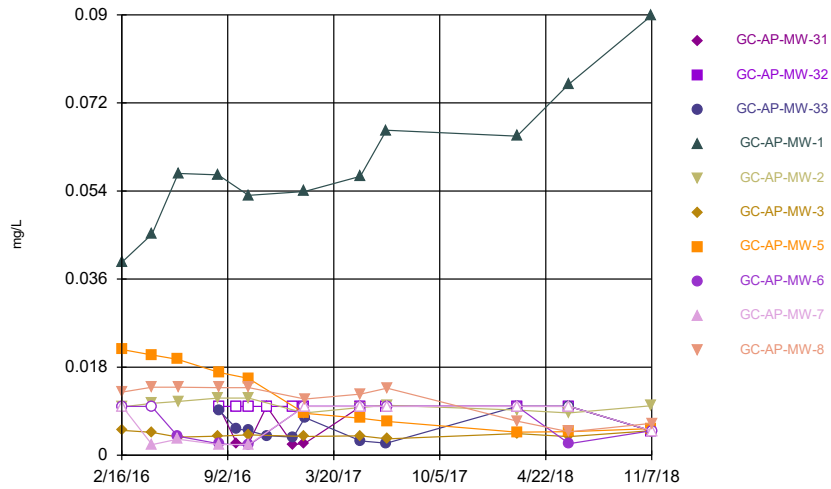
Constituent: Chromium Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



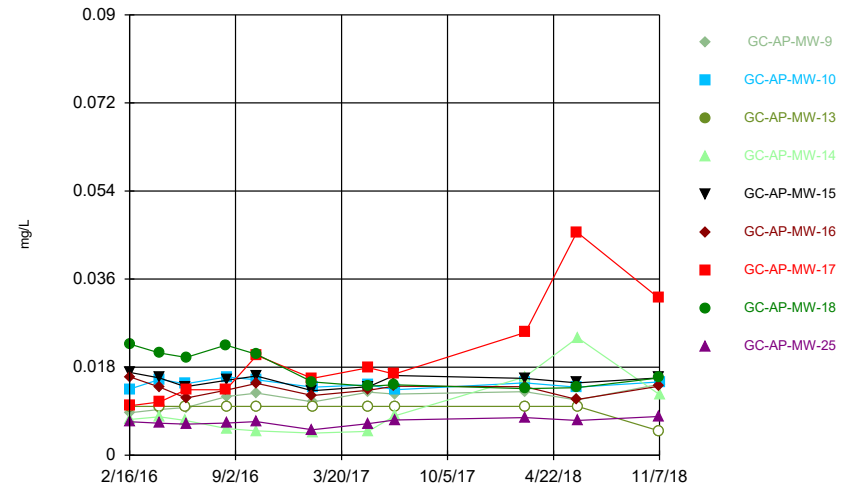
Constituent: Cobalt Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



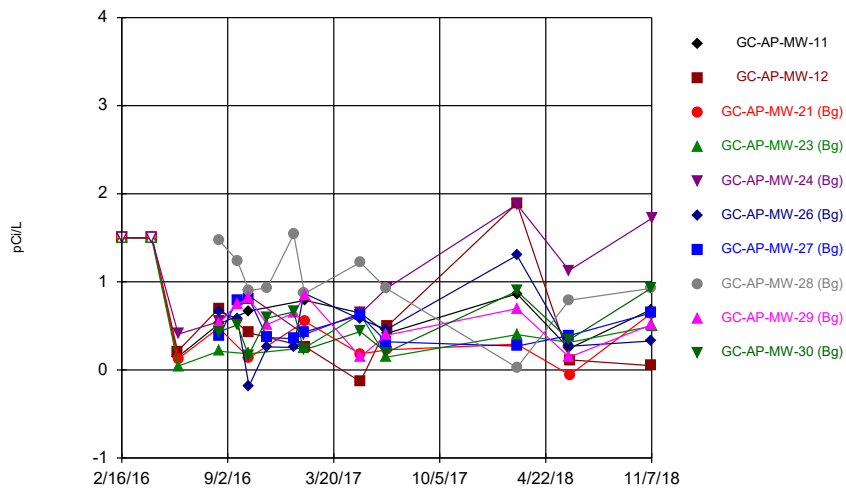
Constituent: Cobalt Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



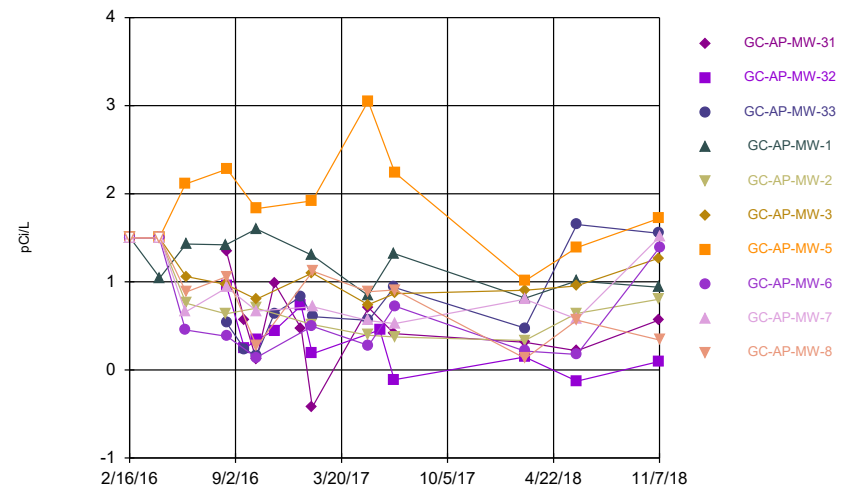
Constituent: Cobalt Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



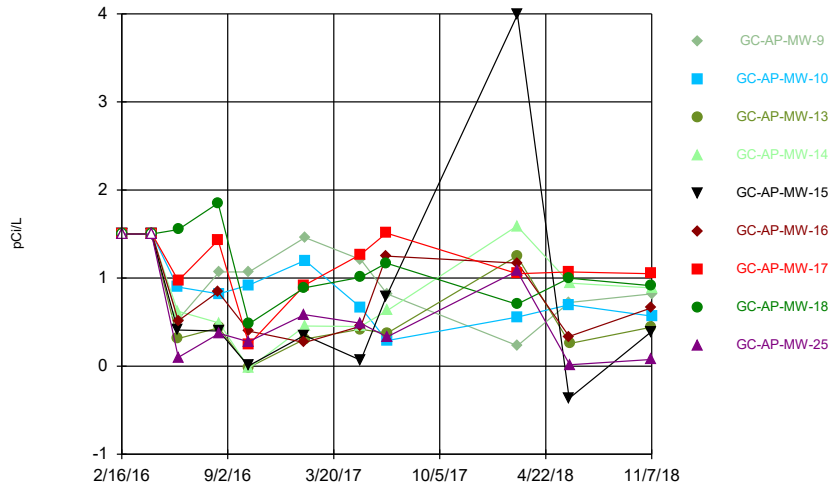
Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



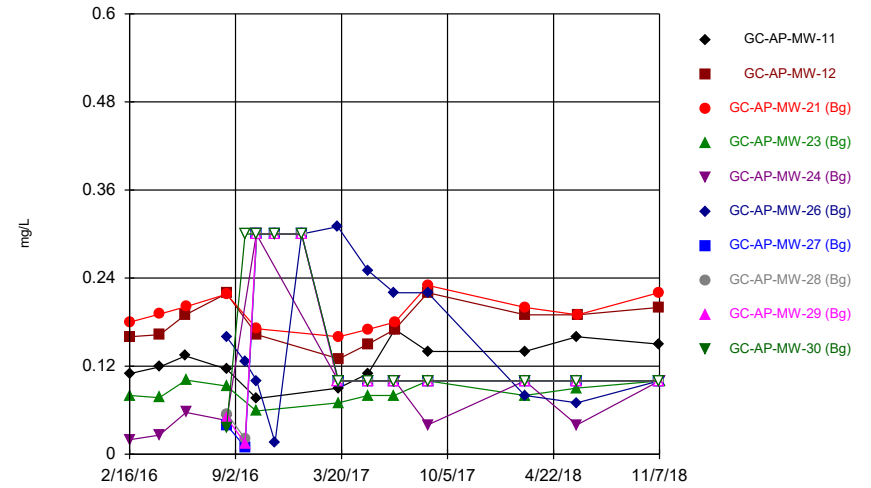
Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



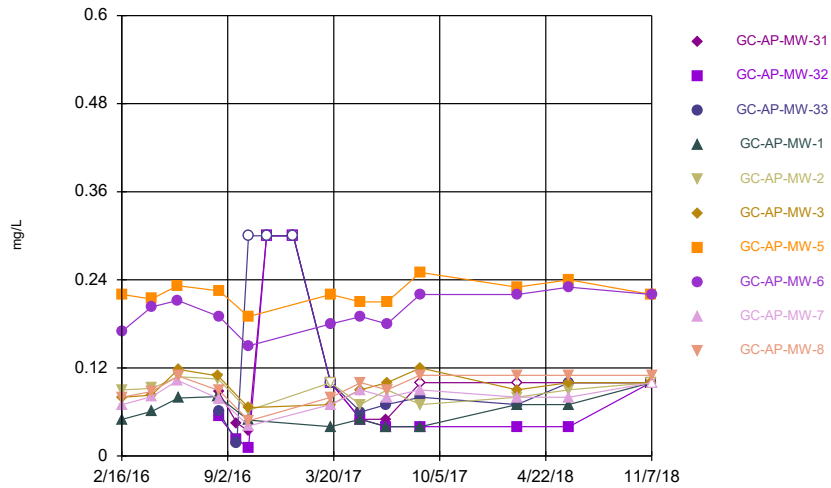
Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



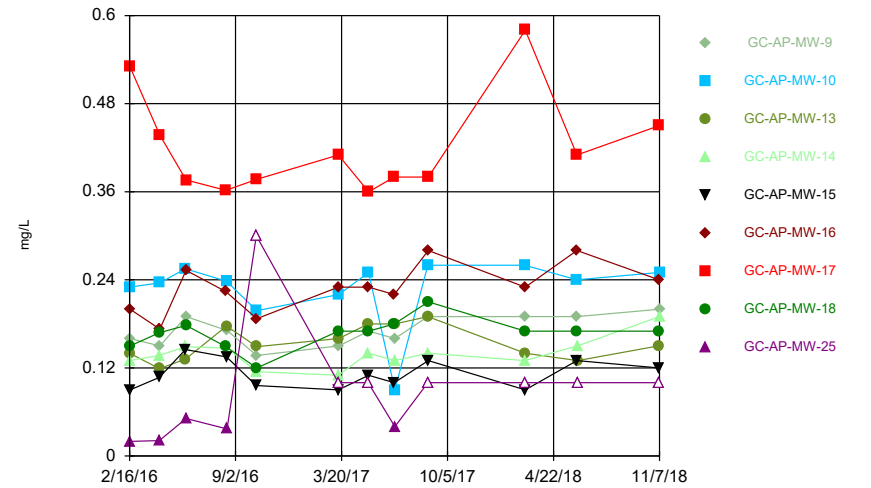
Constituent: Fluoride Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



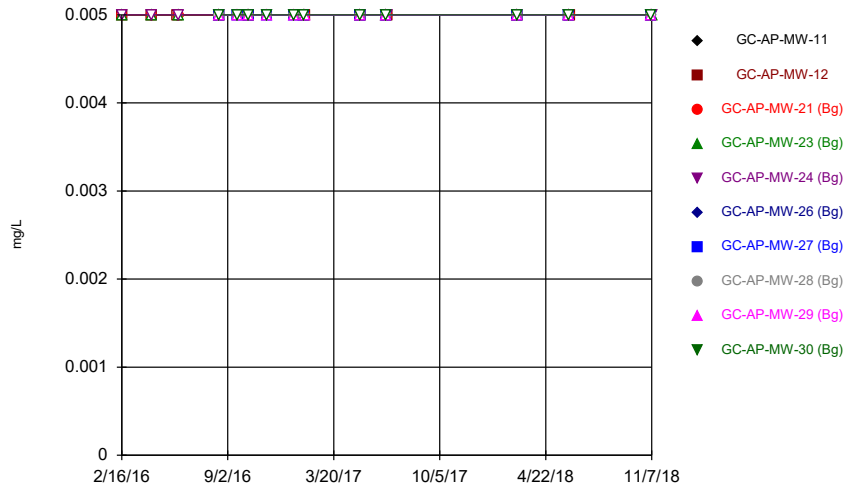
Constituent: Fluoride Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



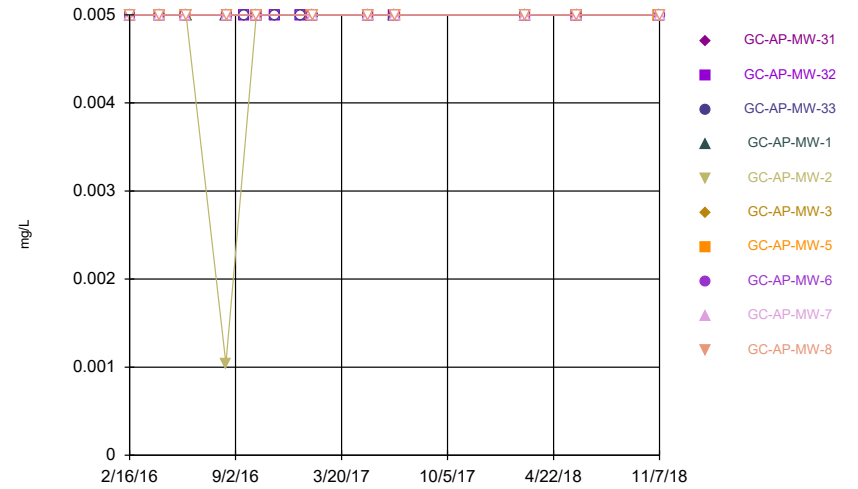
Constituent: Fluoride Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



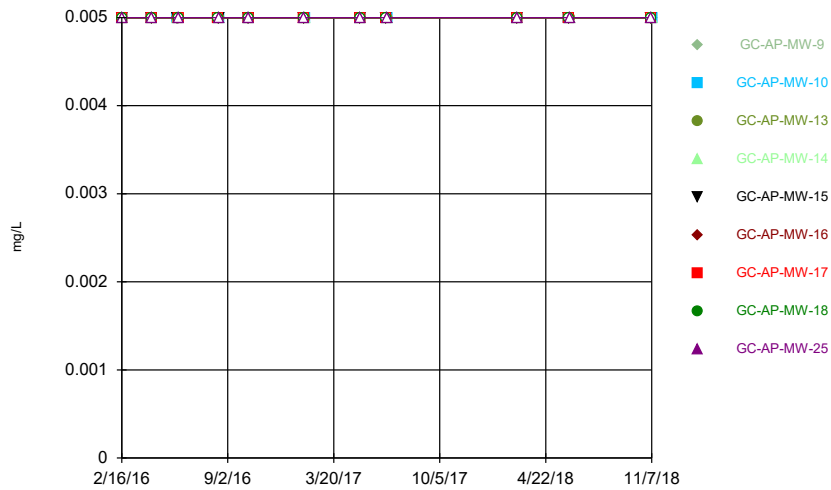
Constituent: Lead Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



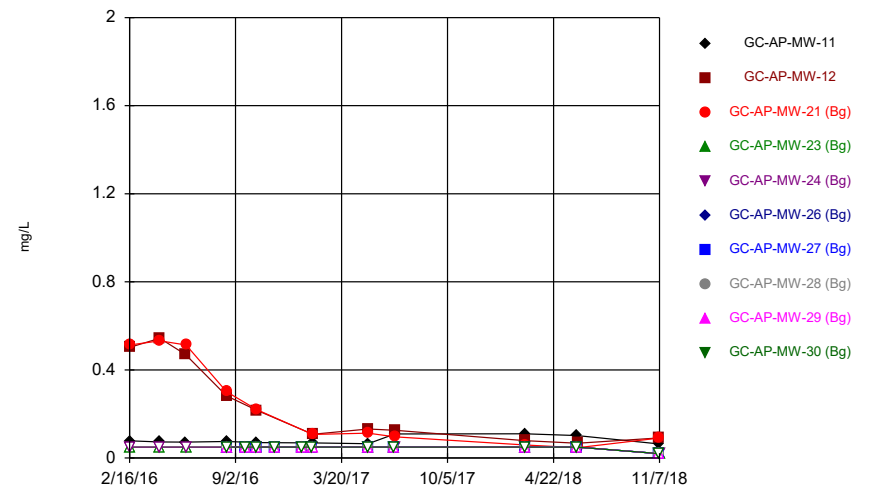
Constituent: Lead Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



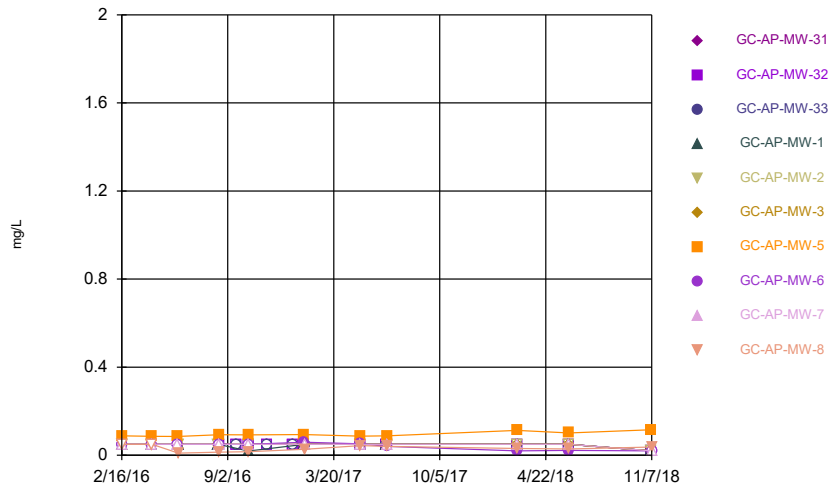
Constituent: Lead Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



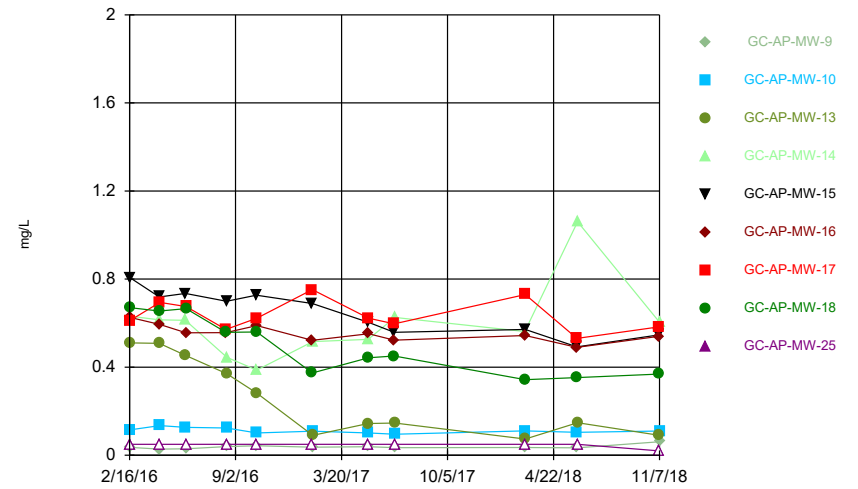
Constituent: Lithium Analysis Run 1/10/2019 4:20 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



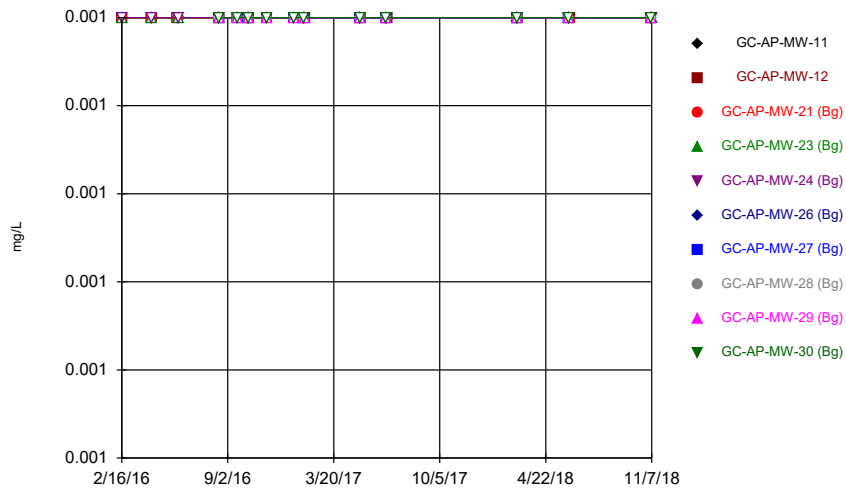
Constituent: Lithium Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



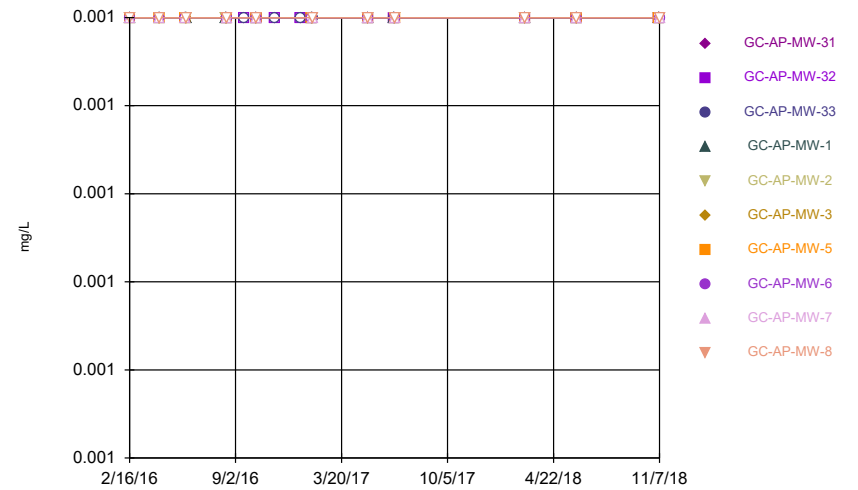
Constituent: Lithium Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



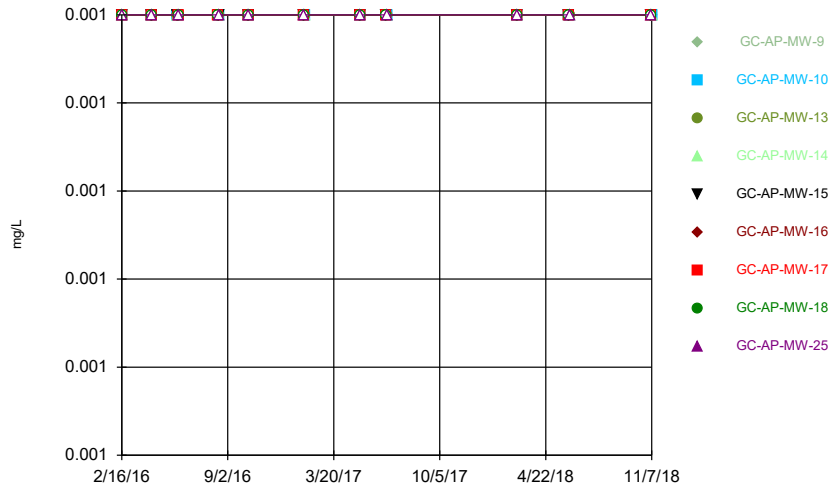
Constituent: Mercury Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



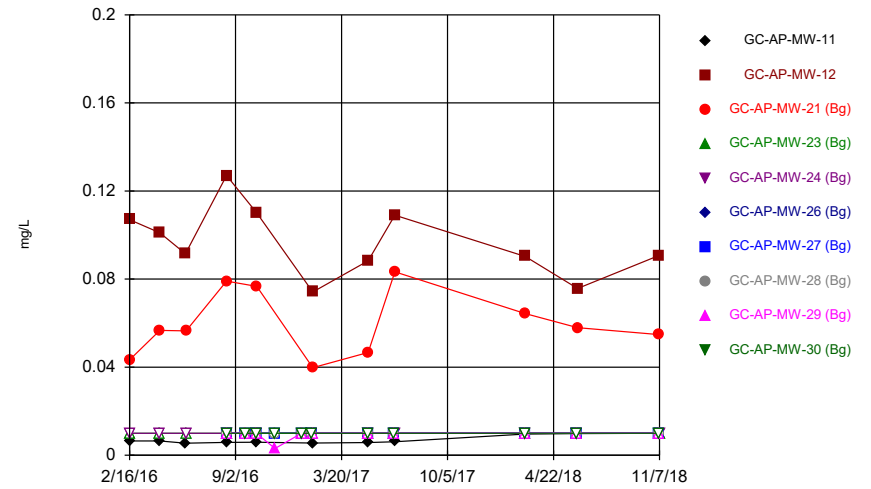
Constituent: Mercury Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



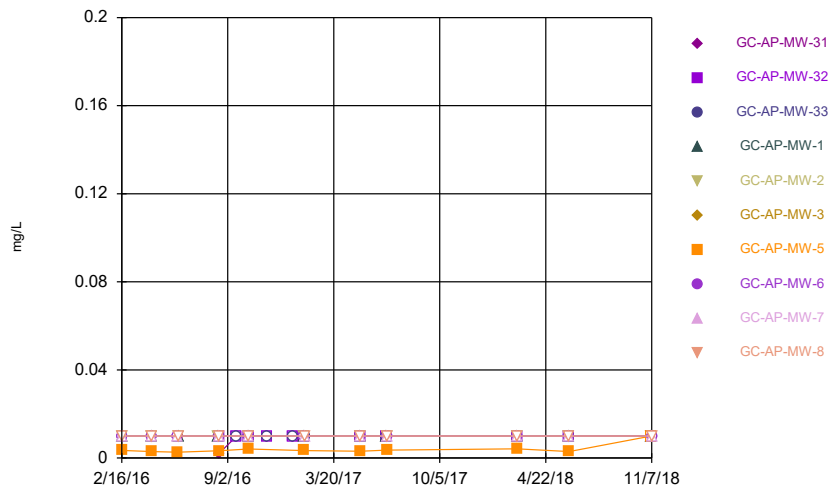
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Greene County Client: Southern Company Data: Greene County AP

Time Series



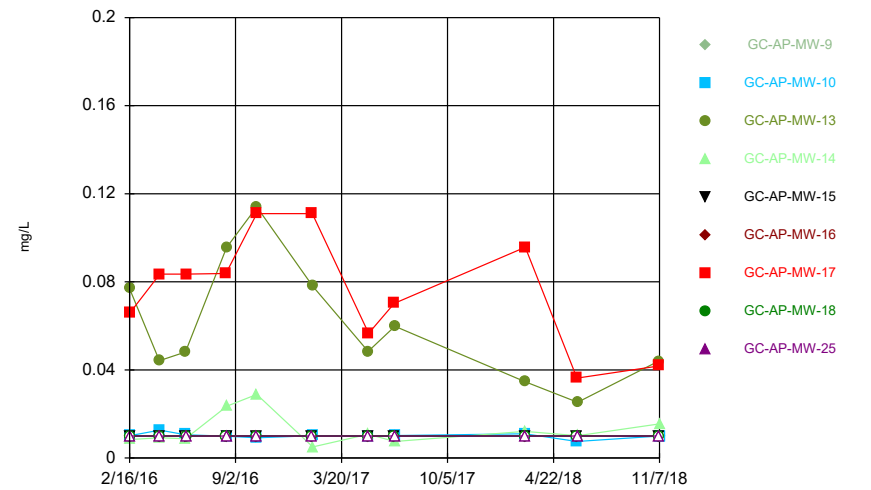
Constituent: Molybdenum Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



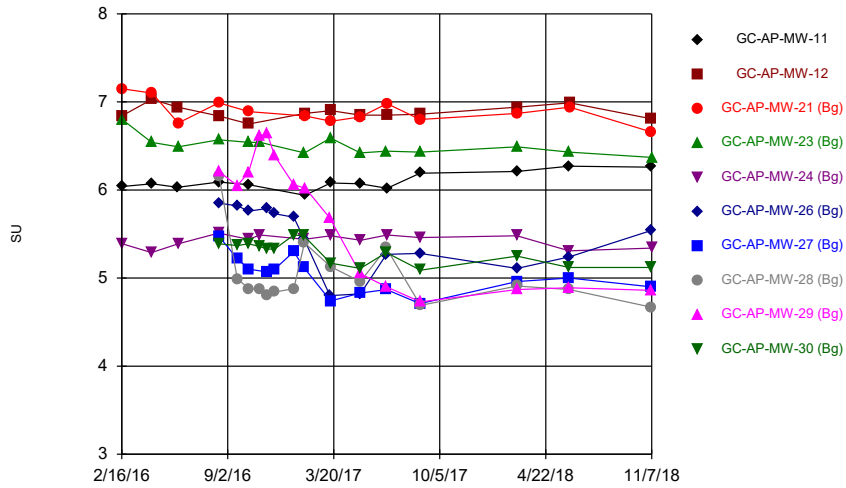
Constituent: Molybdenum Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



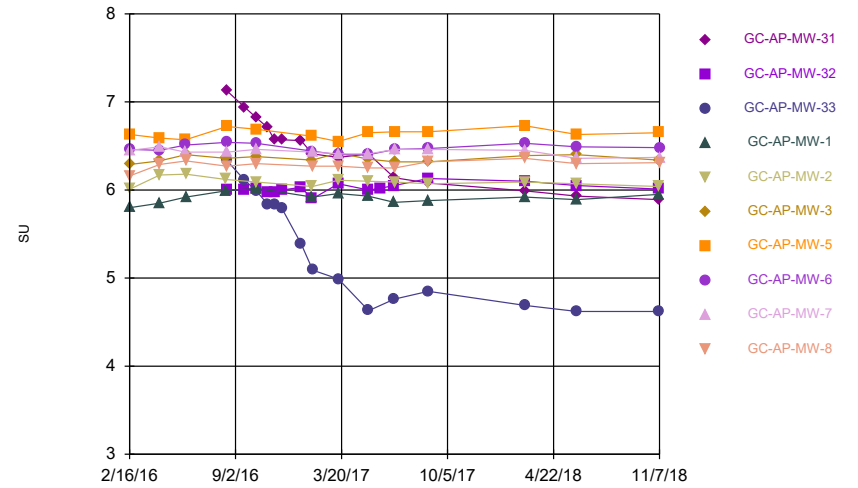
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Greene County Client: Southern Company Data: Greene County AP

Time Series



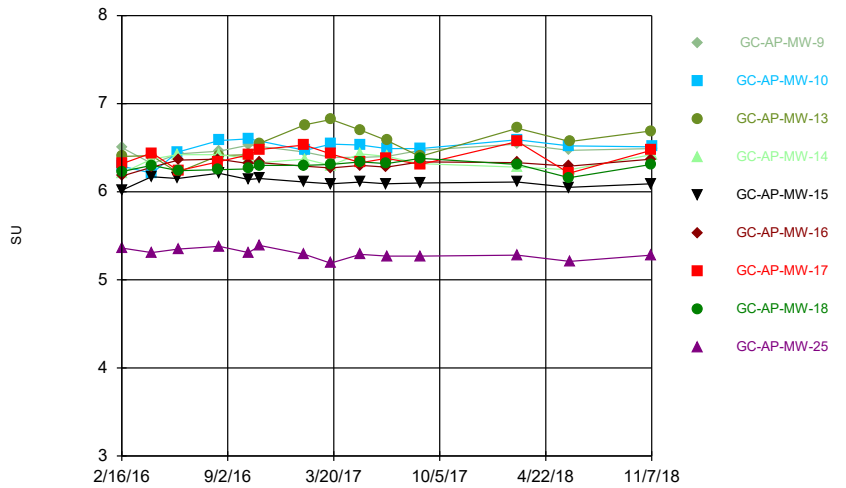
Constituent: pH Analysis Run 1/10/2019 4:21 PM View: Time Series
 Greene County Client: Southern Company Data: Greene County AP

Time Series



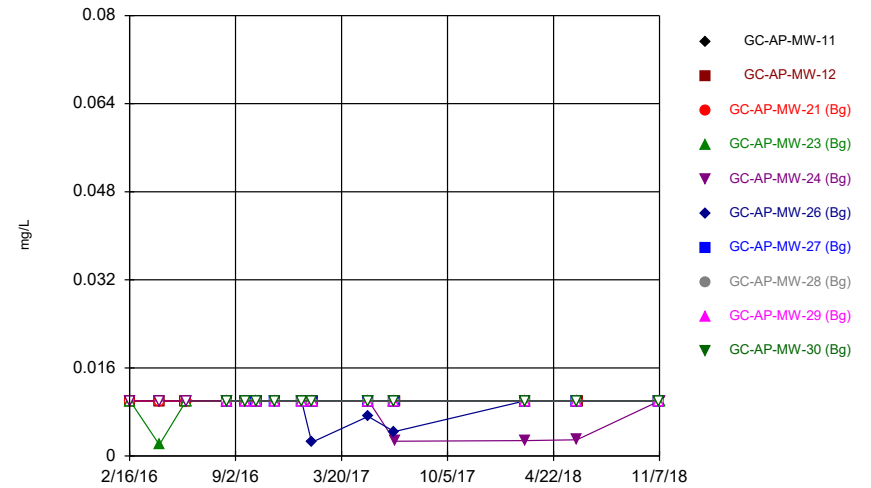
Constituent: pH Analysis Run 1/10/2019 4:21 PM View: Time Series
 Greene County Client: Southern Company Data: Greene County AP

Time Series



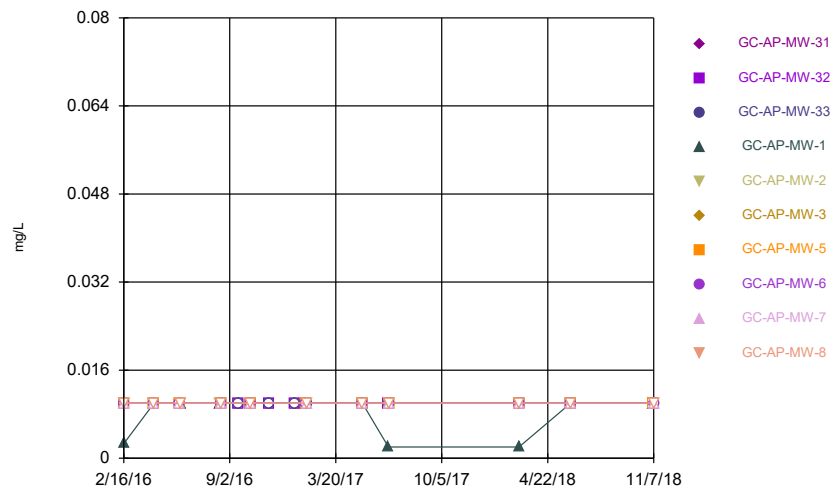
Constituent: pH Analysis Run 1/10/2019 4:21 PM View: Time Series
 Greene County Client: Southern Company Data: Greene County AP

Time Series



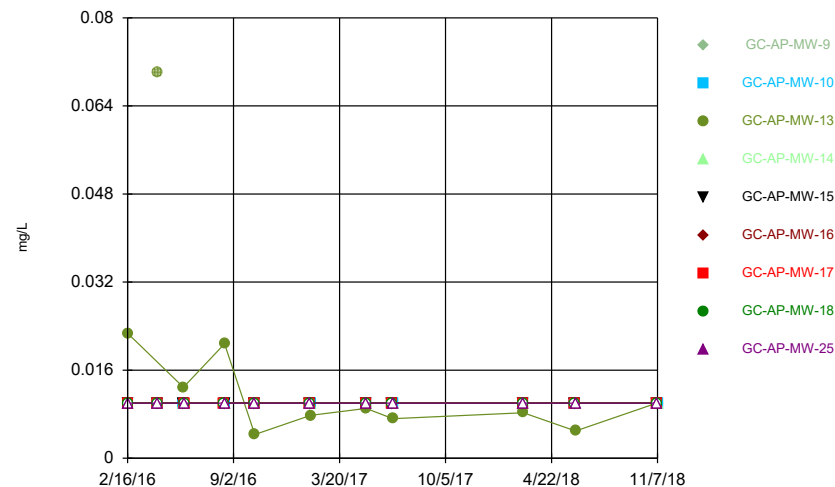
Constituent: Selenium Analysis Run 1/10/2019 4:21 PM View: Time Series
 Greene County Client: Southern Company Data: Greene County AP

Time Series



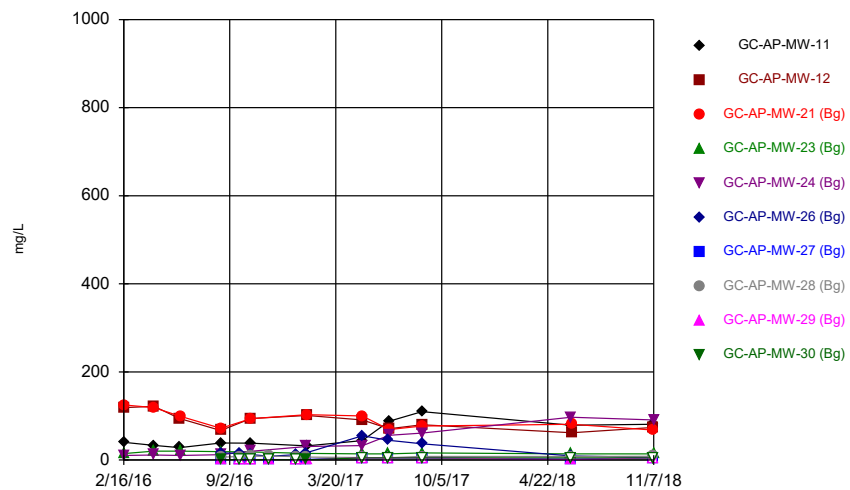
Constituent: Selenium Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



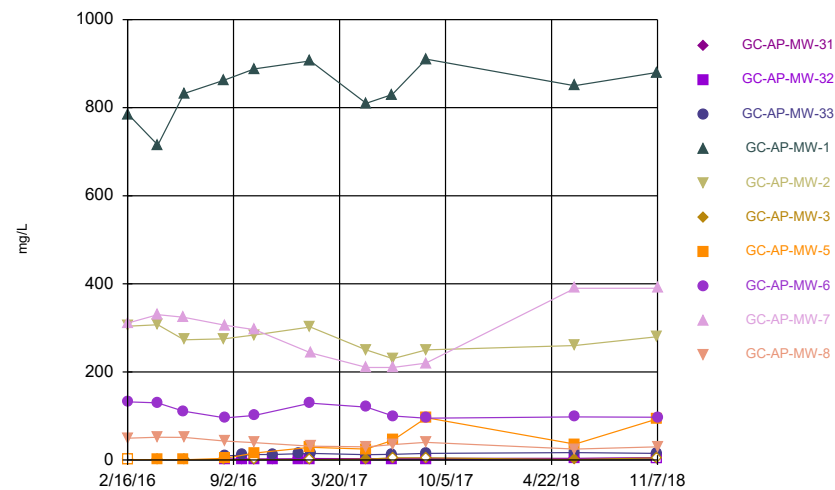
Constituent: Selenium Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



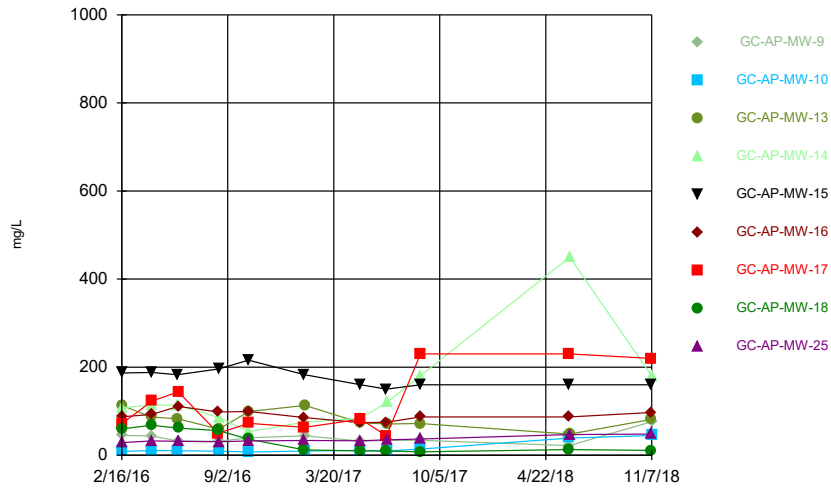
Constituent: Sulfate Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Sulfate Analysis Run 1/10/2019 4:21 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

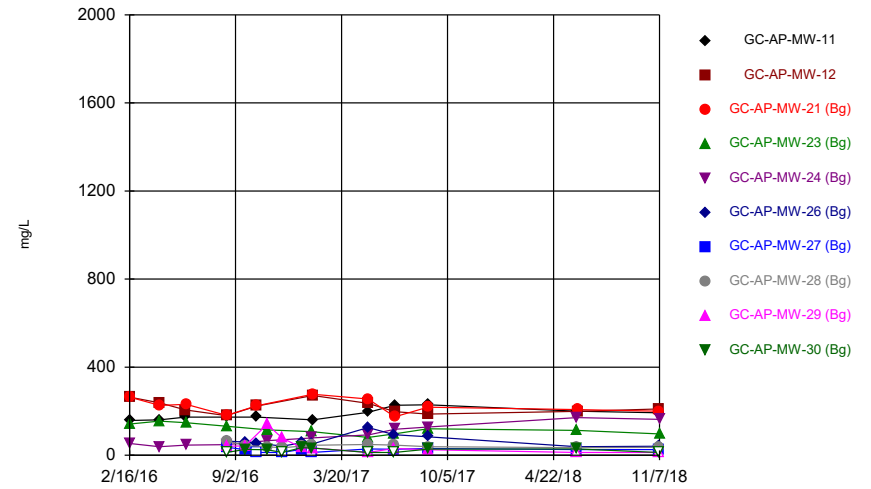
Time Series



Constituent: Sulfate Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

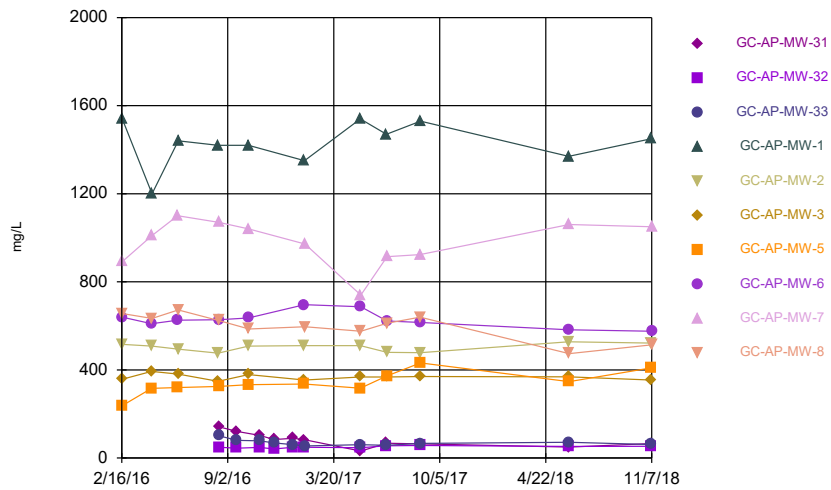
Hollow symbols indicate censored values.

Time Series



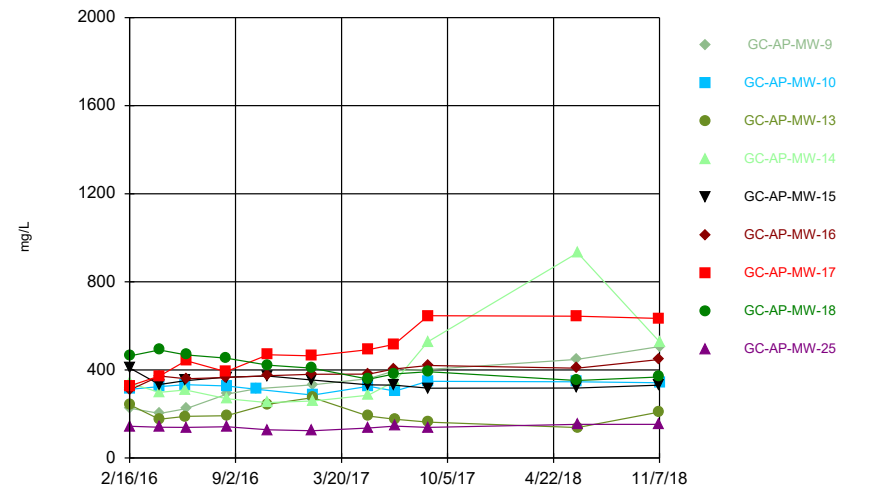
Constituent: TDS Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



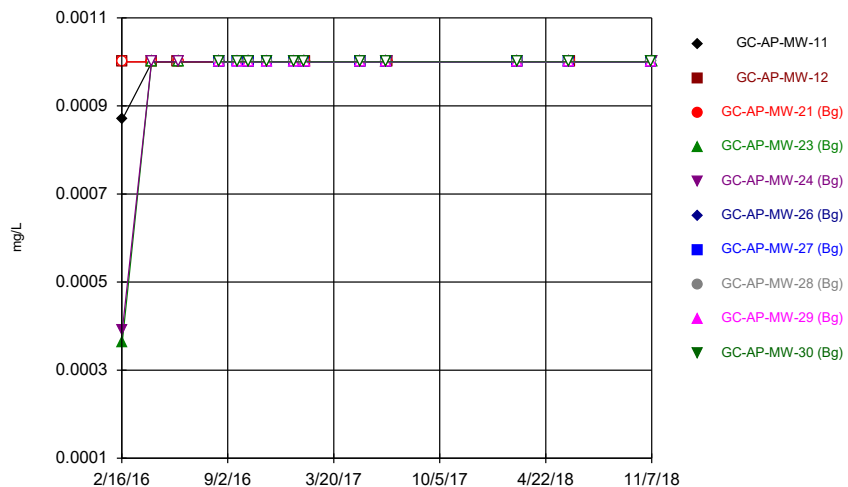
Constituent: TDS Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



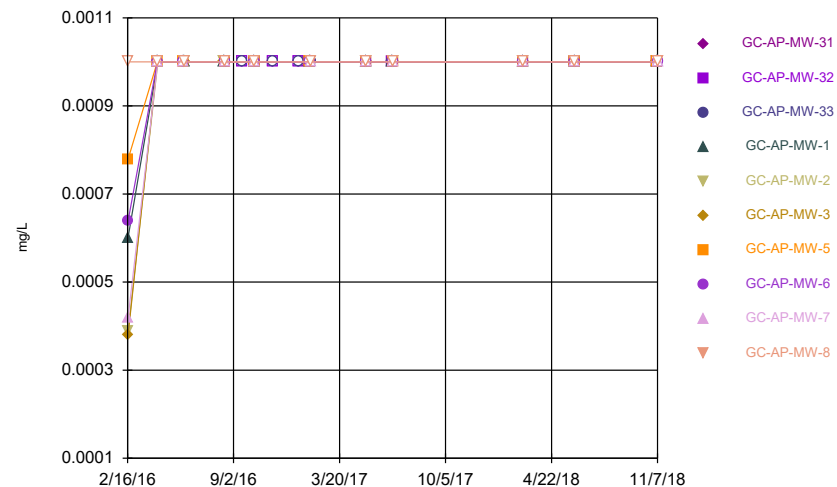
Constituent: TDS Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



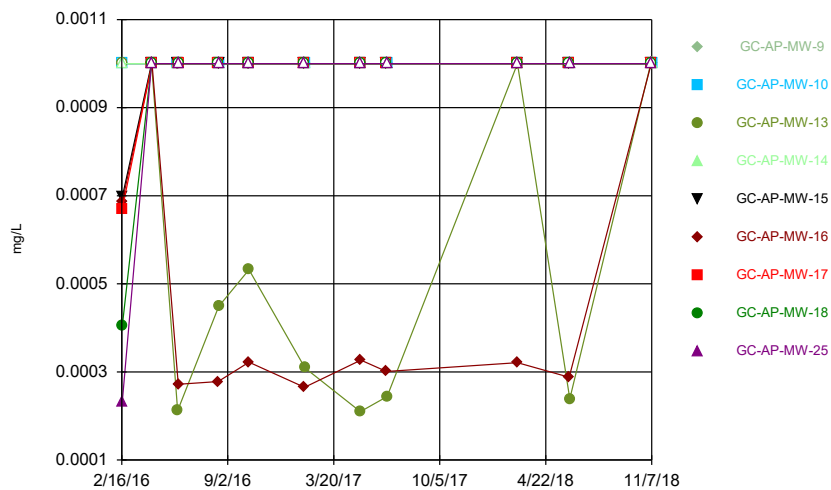
Constituent: Thallium Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series



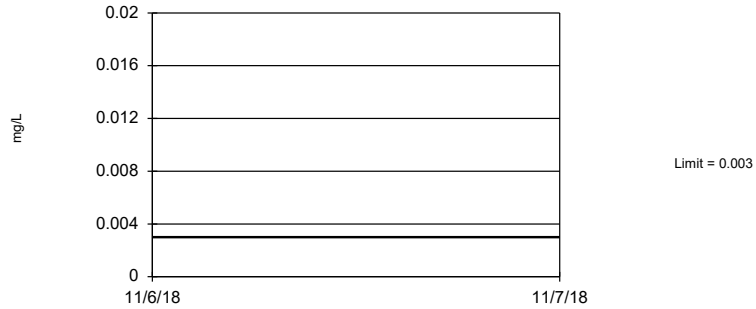
Constituent: Thallium Analysis Run 1/10/2019 4:22 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Upper Tolerance Limits - App IV

Greene County Client: Southern Company Data: Greene County AP Printed 1/10/2019, 4:25 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	88	n/a	n/a	90.91	n/a	n/a	0.01096	NP Inter(NDs)
Arsenic (mg/L)	0.005	88	n/a	n/a	85.23	n/a	n/a	0.01096	NP Inter(NDs)
Barium (mg/L)	0.347	88	n/a	n/a	0	n/a	n/a	0.01096	NP Inter(normal...
Beryllium (mg/L)	0.003	88	n/a	n/a	88.64	n/a	n/a	0.01096	NP Inter(NDs)
Boron (mg/L)	0.304	88	n/a	n/a	78.41	n/a	n/a	0.01096	NP Inter(NDs)
Cadmium (mg/L)	0.001	88	n/a	n/a	80.68	n/a	n/a	0.01096	NP Inter(NDs)
Chromium (mg/L)	0.01	88	n/a	n/a	100	n/a	n/a	0.01096	NP Inter(NDs)
Cobalt (mg/L)	0.0167	88	n/a	n/a	62.5	n/a	n/a	0.01096	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	88	n/a	n/a	6.818	n/a	n/a	0.01096	NP Inter(normal...
Fluoride (mg/L)	0.31	96	n/a	n/a	52.08	n/a	n/a	0.007269	NP Inter(normal...
Lead (mg/L)	0.005	88	n/a	n/a	100	n/a	n/a	0.01096	NP Inter(NDs)
Lithium (mg/L)	0.532	88	n/a	n/a	87.5	n/a	n/a	0.01096	NP Inter(NDs)
Mercury (mg/L)	0.0005	88	n/a	n/a	100	n/a	n/a	0.01096	NP Inter(NDs)
Molybdenum (mg/L)	0.0833	88	n/a	n/a	86.36	n/a	n/a	0.01096	NP Inter(NDs)
Selenium (mg/L)	0.01	88	n/a	n/a	92.05	n/a	n/a	0.01096	NP Inter(NDs)
Thallium (mg/L)	0.001	88	n/a	n/a	97.73	n/a	n/a	0.01096	NP Inter(NDs)

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 90.91% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Antimony Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 85.23% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Arsenic Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

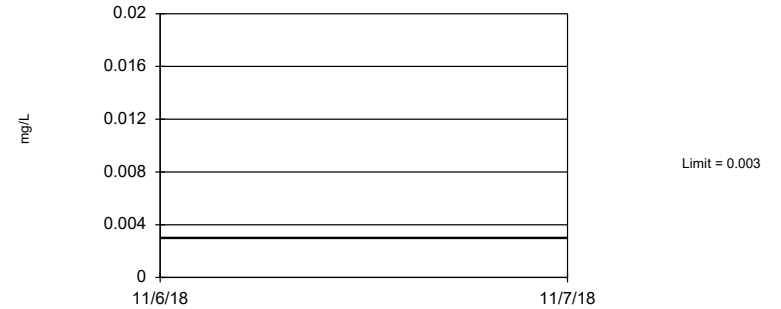
Tolerance Limit Interwell Non-parametric



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 88 background values. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Barium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

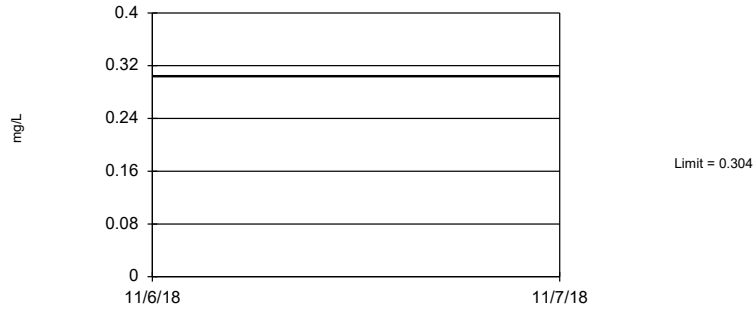
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 88.64% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Beryllium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

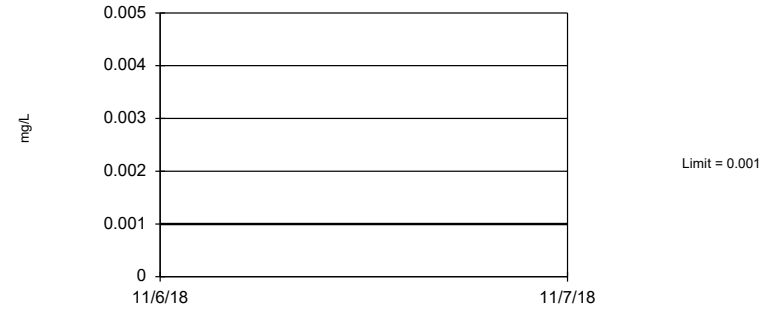
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 78.41% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Boron Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 80.68% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Cadmium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

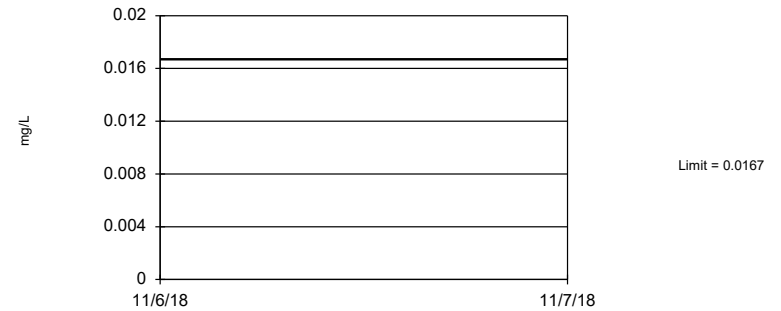
Tolerance Limit Interwell Non-parametric



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. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Chromium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

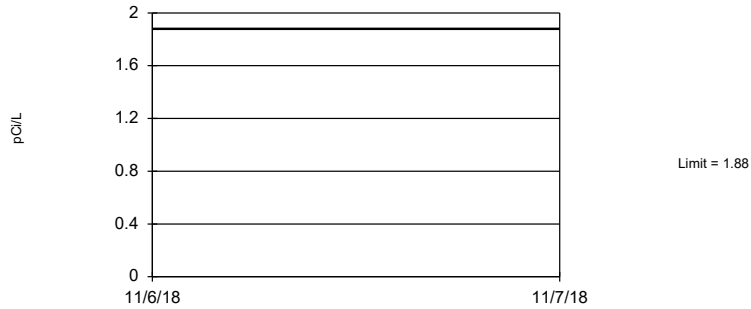
Tolerance Limit Interwell Non-parametric



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 88 background values. 62.5% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Cobalt Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

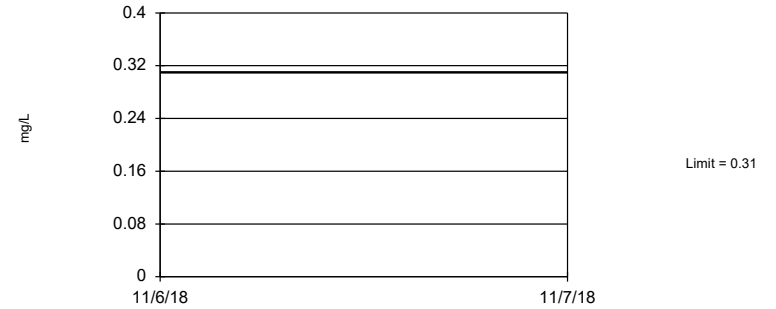
Tolerance Limit Interwell Non-parametric



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 88 background values. 6.818% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Combined Radium 226 + 228 Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

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 96 background values. 52.08% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.007269.

Constituent: Fluoride Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

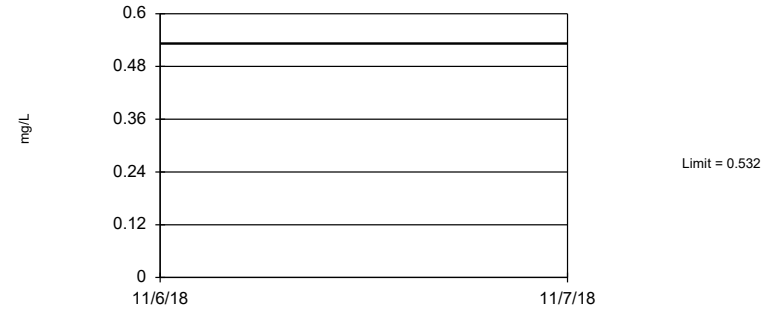
Tolerance Limit Interwell Non-parametric



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. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Lead Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

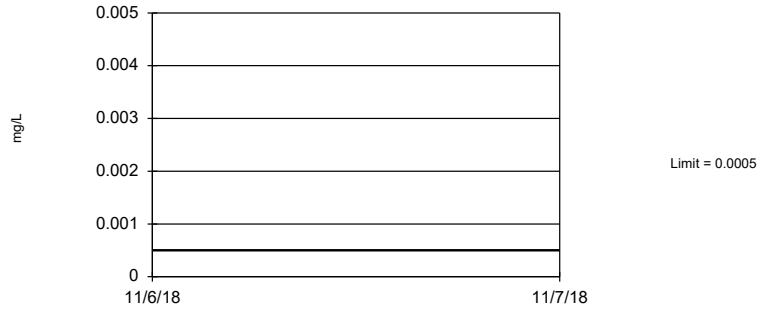
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 87.5% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Lithium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

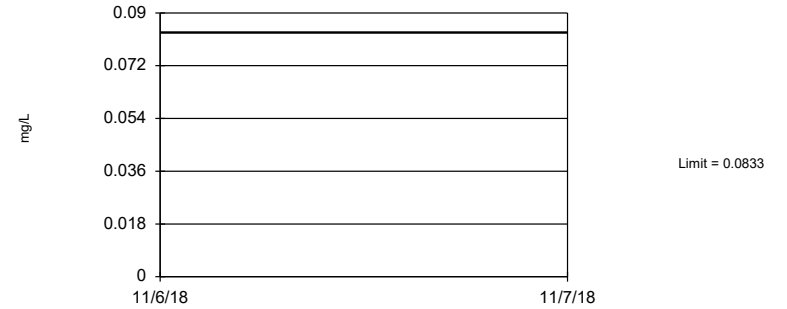
Tolerance Limit Interwell Non-parametric



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. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Mercury Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 86.36% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Molybdenum Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 92.05% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Selenium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 88 background values. 97.73% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Thallium Analysis Run 1/10/2019 4:24 PM View: UTL - App IV
Greene County Client: Southern Company Data: Greene County AP

Confidence Intervals - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/31/2019, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.01907	0.01704	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4215	0.3582	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0152	0.0122	0.01	Yes	11	0	No	0.006	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.03051	0.01822	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.105	0.0472	0.01	Yes	11	0	No	0.006	NP (normality)
Arsenic (mg/L)	GC-AP-MW-17	0.4419	0.2416	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.1164	0.06711	0.01	Yes	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.05374	0.0341	0.0167	Yes	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.07171	0.04843	0.0167	Yes	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.7324	0.5669	0.532	Yes	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.6929	0.5778	0.532	Yes	11	0	No	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/31/2019, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-11	0.0015	0.000896	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.0015	0.000656	0.006	No	11	36.36	No	0.006	NP (Cohens/xfrm)
Antimony (mg/L)	GC-AP-MW-31	0.0015	0.000928	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.0015	0.00091	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.0015	0.00112	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-1	0.0015	0.000799	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.0015	0.00084	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.0015	0.000906	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.0015	0.000728	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.0015	0.000792	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.0015	0.000839	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.0015	0.000833	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.0015	0.000847	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.0015	0.000786	0.006	No	11	81.82	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003657	0.001406	0.006	No	11	18.18	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.0015	0.00062	0.006	No	11	81.82	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.0015	0.00111	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.0015	0.000935	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.0015	0.000997	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.0015	0.000984	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.0015	0.00111	0.006	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-11	0.007508	0.005339	0.01	No	11	9.091	x^2	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-31	0.0025	0.00111	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	GC-AP-MW-32	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.0025	0.00122	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-1	0.01907	0.01704	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-2	0.01357	0.009701	0.01	No	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.007887	0.007039	0.01	No	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4215	0.3582	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.008789	0.006155	0.01	No	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0152	0.0122	0.01	Yes	11	0	No	0.006	NP (normality)
Arsenic (mg/L)	GC-AP-MW-13	0.0141	0.0025	0.01	No	11	9.091	No	0.006	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.03051	0.01822	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-16	0.105	0.0472	0.01	Yes	11	0	No	0.006	NP (normality)
Arsenic (mg/L)	GC-AP-MW-17	0.4419	0.2416	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.1164	0.06711	0.01	Yes	11	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-25	0.0025	0.0025	0.01	No	11	100	No	0.006	NP (NDs)
Barium (mg/L)	GC-AP-MW-11	0.112	0.07703	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.02273	0.0184	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.02347	0.01968	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.01338	0.01213	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-33	0.0747	0.03001	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.04117	0.03421	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03187	0.02815	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1046	0.09432	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.4712	0.3245	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.0511	0.04319	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08227	0.06553	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1099	0.08811	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1126	0.06731	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.1766	0.1574	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1095	0.09202	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.07095	0.04159	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.02728	0.02286	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.05098	0.03811	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.165	0.07303	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1331	0.1156	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.0948	0.08484	2	No	11	0	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-11	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-12	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-31	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-32	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-33	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/31/2019, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GC-AP-MW-1	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-2	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-3	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-5	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-6	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-7	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-8	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-9	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-10	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-13	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-14	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-15	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-16	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-17	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-18	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-25	0.0015	0.000715	0.004	No	11	90.91	No	0.006	NP (NDs)
Boron (mg/L)	GC-AP-MW-11	0.5837	0.3987	4	No	11	0	x^4	0.01	Param.
Boron (mg/L)	GC-AP-MW-12	0.2895	0.1934	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-31	0.05	0.0282	4	No	11	90.91	No	0.006	NP (NDs)
Boron (mg/L)	GC-AP-MW-32	0.05	0.05	4	No	11	100	No	0.006	NP (NDs)
Boron (mg/L)	GC-AP-MW-33	0.05	0.0225	4	No	11	54.55	No	0.006	NP (normality)
Boron (mg/L)	GC-AP-MW-1	0.237	0.1929	4	No	11	0	x^2	0.01	Param.
Boron (mg/L)	GC-AP-MW-2	0.1349	0.1113	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-3	0.05	0.0226	4	No	11	18.18	No	0.006	NP (normality)
Boron (mg/L)	GC-AP-MW-5	0.492	0.4462	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-6	1.981	1.633	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-7	0.5745	0.4729	4	No	11	0	x^(1/3)	0.01	Param.
Boron (mg/L)	GC-AP-MW-8	1.806	1.561	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-9	0.8167	0.4024	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-10	1.376	1.084	4	No	11	0	x^3	0.01	Param.
Boron (mg/L)	GC-AP-MW-13	0.2896	0.1624	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-14	0.8746	0.5907	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-15	0.543	0.424	4	No	11	0	No	0.006	NP (normality)
Boron (mg/L)	GC-AP-MW-16	1.452	1.323	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-17	1.998	1.68	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-18	1.832	1.497	4	No	11	0	No	0.01	Param.
Boron (mg/L)	GC-AP-MW-25	0.09748	0.08032	4	No	11	9.091	x^3	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-11	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-12	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-31	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-32	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-33	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-3	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-7	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-16	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-18	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-11	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-31	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-32	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-33	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/31/2019, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GC-AP-MW-7	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.005	0.00219	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-11	0.05374	0.0341	0.0167	Yes	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.005	0.0025	0.0167	No	11	100	No	0.006	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-31	0.005	0.00217	0.0167	No	11	63.64	No	0.006	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.005	0.0025	0.0167	No	11	100	No	0.006	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.01028	0.003767	0.0167	No	11	27.27	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.07171	0.04843	0.0167	Yes	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.01102	0.009247	0.0167	No	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004513	0.00338	0.0167	No	11	9.091	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-5	0.01737	0.006254	0.0167	No	11	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.005	0.00202	0.0167	No	11	63.64	No	0.006	NP (normality)
Cobalt (mg/L)	GC-AP-MW-7	0.005	0.00217	0.0167	No	11	63.64	No	0.006	NP (normality)
Cobalt (mg/L)	GC-AP-MW-8	0.0139	0.00478	0.0167	No	11	0	No	0.006	NP (normality)
Cobalt (mg/L)	GC-AP-MW-9	0.01308	0.01012	0.0167	No	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.01529	0.01387	0.0167	No	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.005	0.0025	0.0167	No	11	100	No	0.006	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.01312	0.005026	0.0167	No	11	0	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01623	0.01432	0.0167	No	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01464	0.01239	0.0167	No	11	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.0277	0.01201	0.0167	No	11	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.0225	0.0136	0.0167	No	11	0	No	0.006	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.007407	0.006202	0.0167	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	2.069	0.1136	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	2.146	-0.1054	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.8613	0.09684	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	0.5795	0.02938	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	1.143	0.3449	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.435	0.9696	5	No	11	9.091	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.5	0.334	5	No	11	18.18	No	0.006	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	2.218	0.6039	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.871	1.562	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.5	0.139	5	No	11	18.18	No	0.006	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.5	0.526	5	No	11	18.18	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	2.157	0.2397	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	2.24	0.4655	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	2.147	0.3221	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	1.5	-0.0137	5	No	11	18.18	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	2.179	0.2029	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	1.5	-0.365	5	No	11	18.18	No	0.006	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	2.142	0.2074	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.313	0.6673	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	2.337	0.657	5	No	11	18.18	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.5	0.016	5	No	11	18.18	No	0.006	NP (Cohens/xfrm)
Fluoride (mg/L)	GC-AP-MW-11	0.1482	0.1043	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2003	0.1572	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.15	0.045	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-32	0.15	0.023	4	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GC-AP-MW-33	0.3639	0.06709	4	No	12	41.67	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.06847	0.04486	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1031	0.07653	4	No	12	16.67	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1074	0.08026	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-5	0.234	0.2095	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2162	0.1779	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.08941	0.06276	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.1076	0.08136	4	No	12	0	x^2	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-9	0.1875	0.1555	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2541	0.2138	4	No	12	0	x^4	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1721	0.1357	4	No	12	0	No	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/31/2019, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-14	0.155	0.123	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1273	0.09656	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2546	0.2033	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.53	0.362	4	No	12	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-18	0.1838	0.1503	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.051	0.021	4	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GC-AP-MW-11	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-12	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-1	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.0025	0.00104	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-5	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-6	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-7	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-8	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-10	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-13	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-14	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-15	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-16	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-17	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-18	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	GC-AP-MW-25	0.0025	0.0025	0.015	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-11	0.109	0.0641	0.532	No	11	0	No	0.006	NP (normality)
Lithium (mg/L)	GC-AP-MW-12	0.369	0.09284	0.532	No	11	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-31	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-32	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-33	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.025	0.01	0.532	No	11	90.91	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-2	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-3	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-5	0.113	0.085	0.532	No	11	0	No	0.006	NP (normality)
Lithium (mg/L)	GC-AP-MW-6	0.0519	0.01	0.532	No	11	54.55	No	0.006	NP (Cohens/xfrm)
Lithium (mg/L)	GC-AP-MW-7	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GC-AP-MW-8	0.04682	0.01965	0.532	No	11	18.18	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.04475	0.03079	0.532	No	11	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.1223	0.1018	0.532	No	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.3882	0.1113	0.532	No	11	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.7242	0.4665	0.532	No	11	0	x^(1/3)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.7324	0.5669	0.532	Yes	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.5855	0.5223	0.532	No	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.6929	0.5778	0.532	Yes	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.604	0.3854	0.532	No	11	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-25	0.025	0.01	0.532	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-11	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-12	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-31	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-32	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-33	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-1	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-2	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-3	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-5	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-6	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-7	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-8	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-9	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-10	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-13	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-14	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-15	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-16	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-17	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GC-AP-MW-18	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)

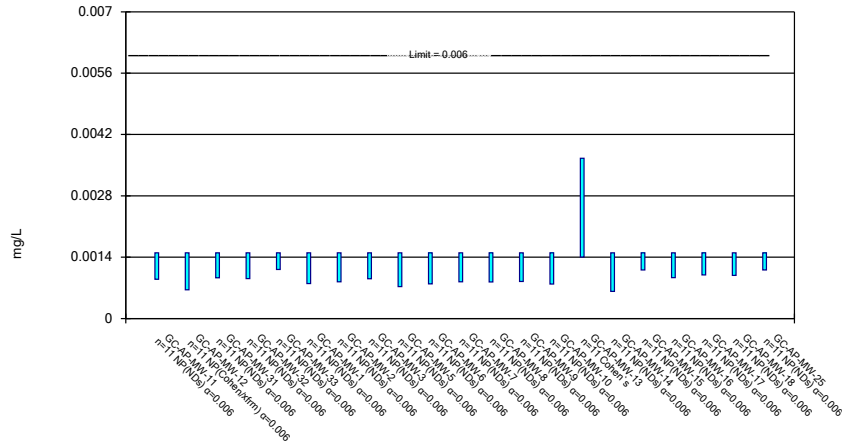
Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/31/2019, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Mercury (mg/L)	GC-AP-MW-25	0.00025	0.00025	0.002	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-11	0.00962	0.005	0.1	No	11	9.091	No	0.006	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-12	0.1099	0.0836	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-31	0.005	0.00201	0.1	No	11	90.91	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-32	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-33	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-3	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.004082	0.002937	0.1	No	11	9.091	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-9	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.0113	0.008001	0.1	No	11	9.091	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.0835	0.03811	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.0179	0.007154	0.1	No	11	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-15	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-16	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.09717	0.05545	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-25	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-11	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-12	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-31	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-32	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.005	0.00206	0.05	No	11	72.73	No	0.006	NP (normality)
Selenium (mg/L)	GC-AP-MW-2	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-5	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-6	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-7	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-8	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-9	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-10	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.0154	0.005011	0.05	No	10	10	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-14	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-15	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-16	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-17	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-18	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	GC-AP-MW-25	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-11	0.0005	0.0005	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-12	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-31	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-32	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-33	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.0005	0.000388	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.0005	0.00038	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.0005	0.00042	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.0005	0.00021	0.002	No	11	36.36	No	0.006	NP (normality)
Thallium (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.0005	0.000265	0.002	No	11	18.18	No	0.006	NP (normality)
Thallium (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.0005	0.000404	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.0005	0.000232	0.002	No	11	90.91	No	0.006	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

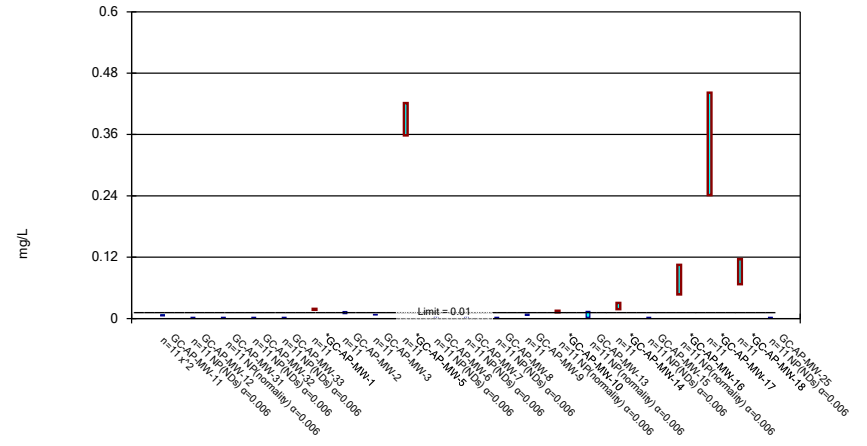
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 1/31/2019 12:23 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

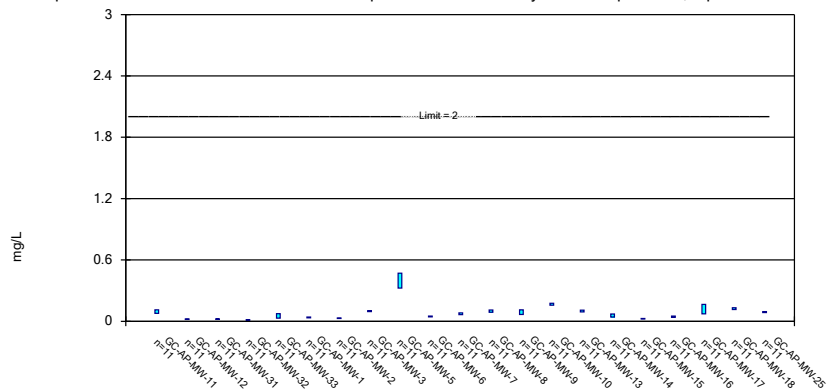
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/31/2019 12:23 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

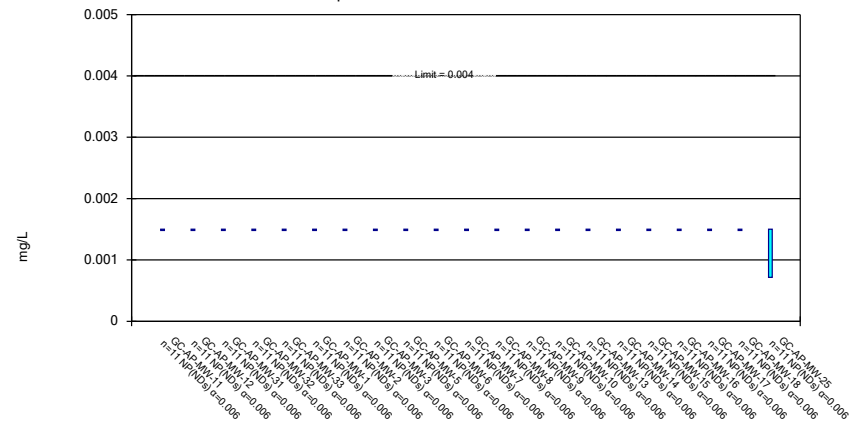
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Constituent: Barium Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

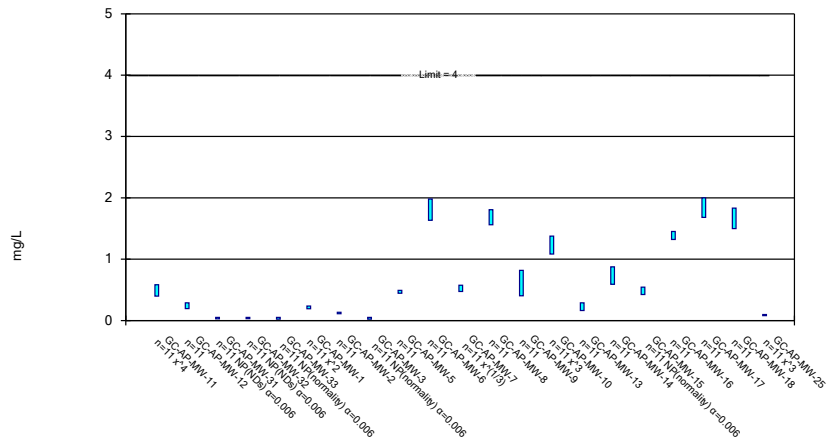
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

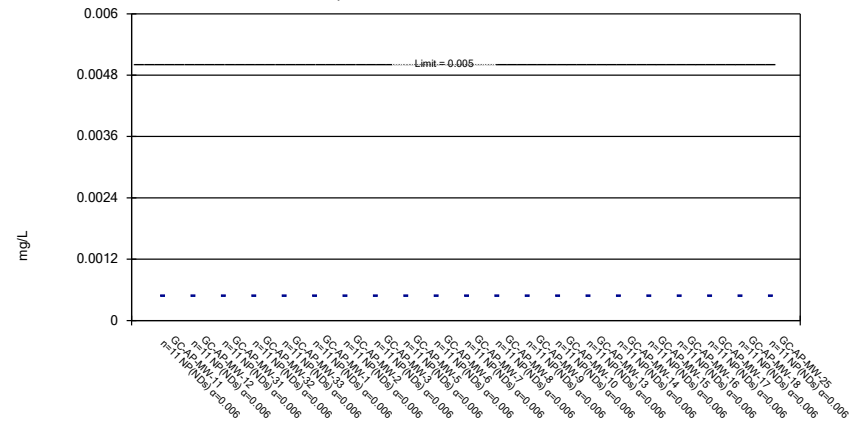
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Boron Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

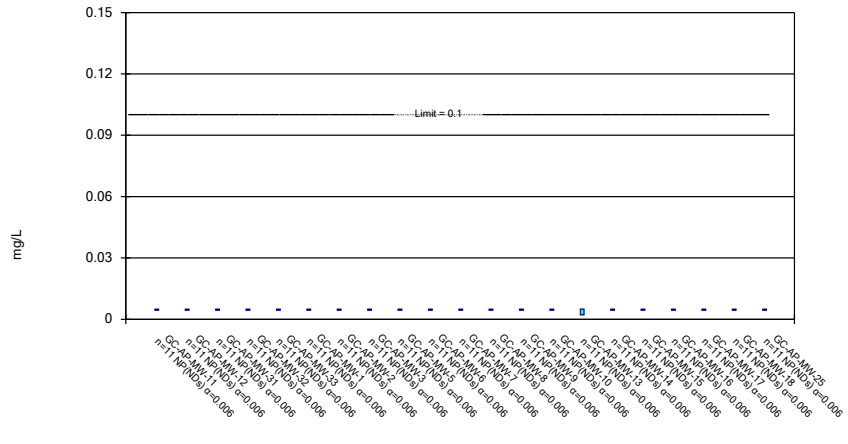
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

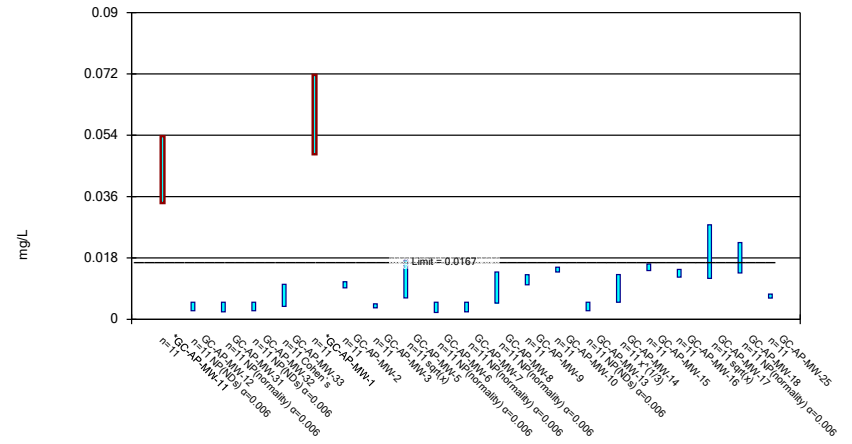
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

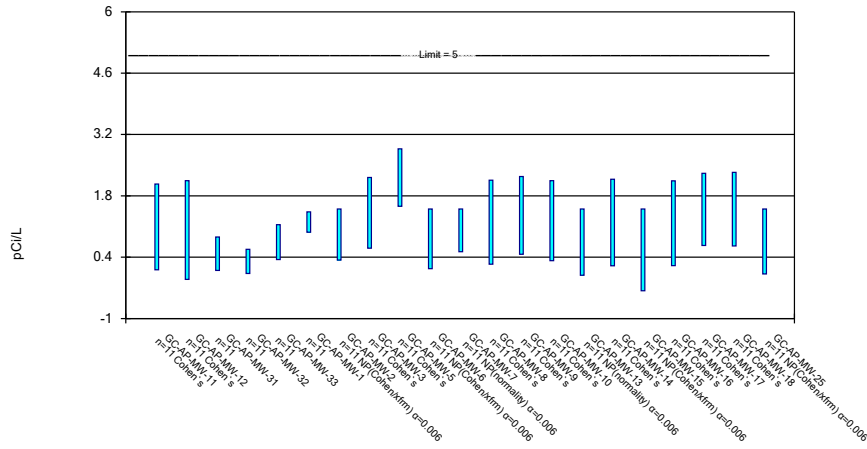
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

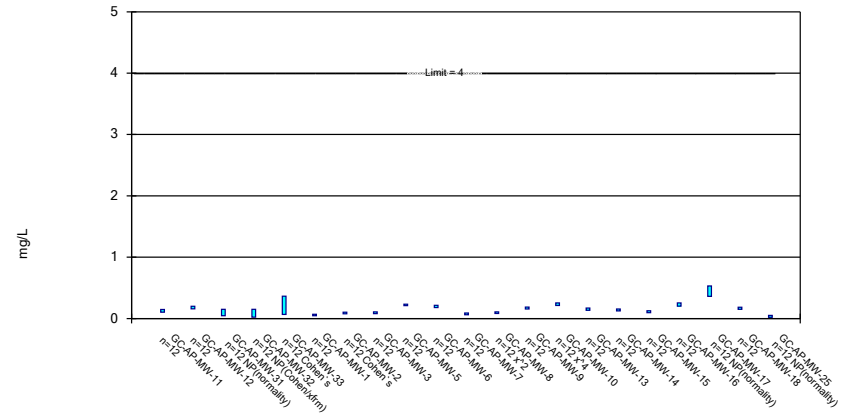
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

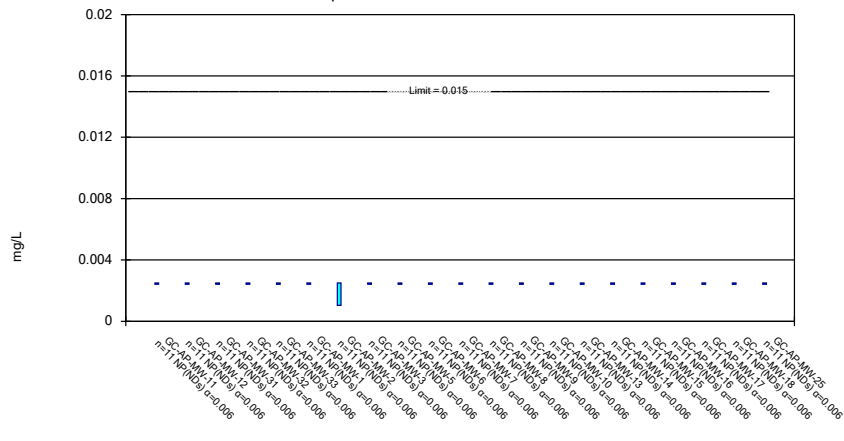
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/31/2019 12:24 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

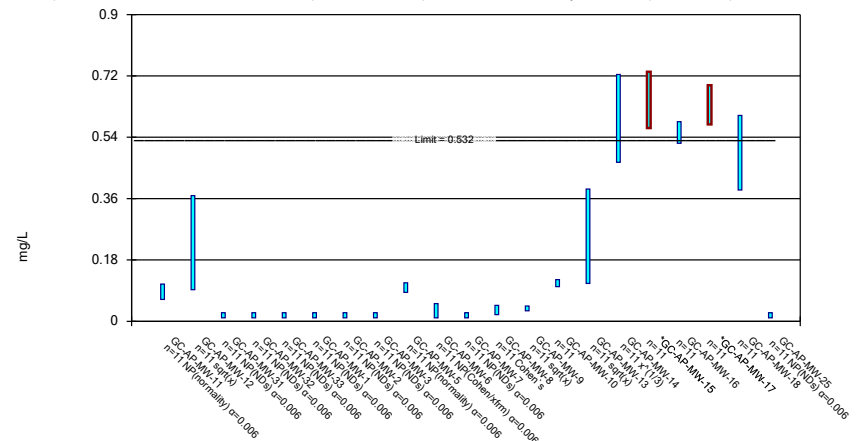
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 1/31/2019 12:25 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

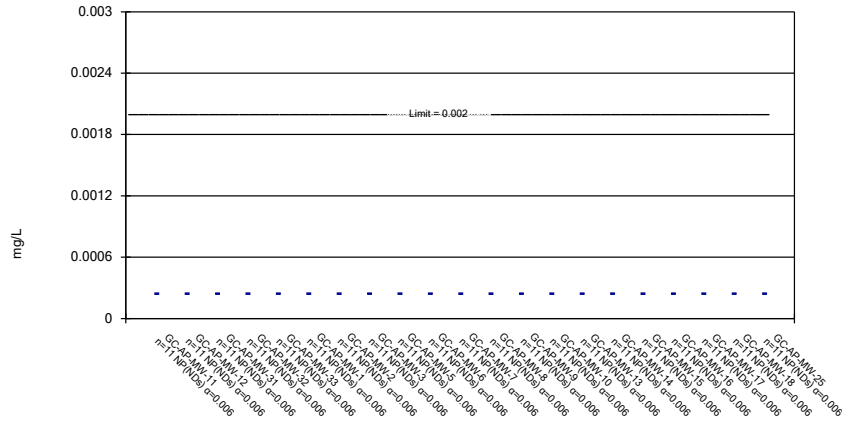
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/31/2019 12:25 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

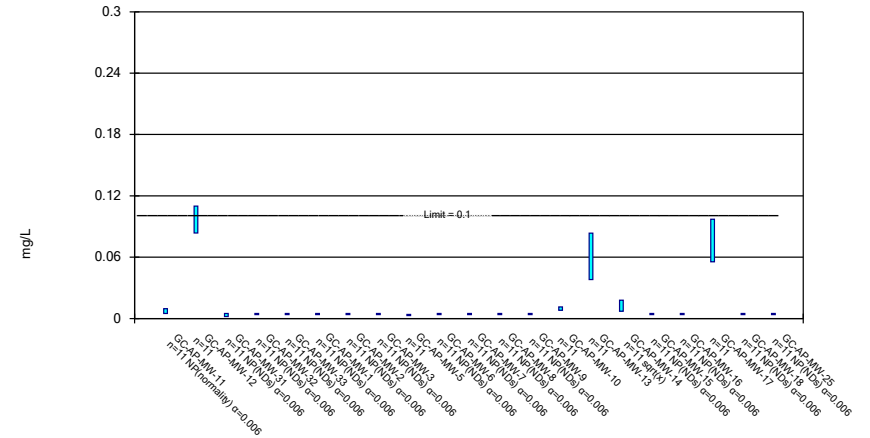
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 1/31/2019 12:25 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

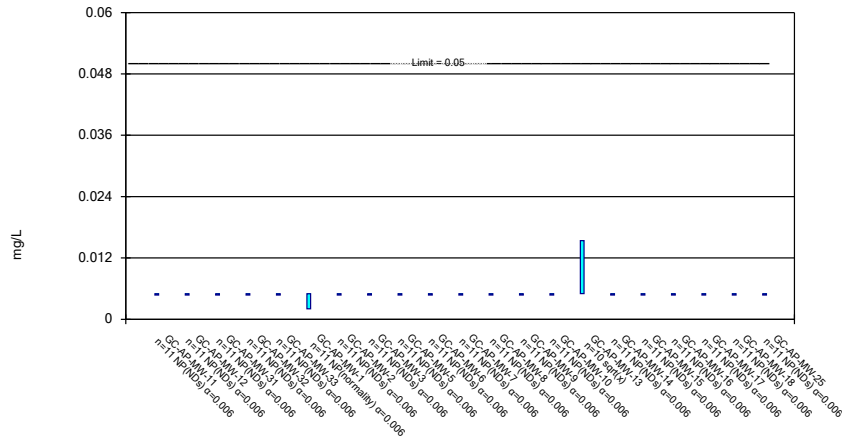
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/31/2019 12:25 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

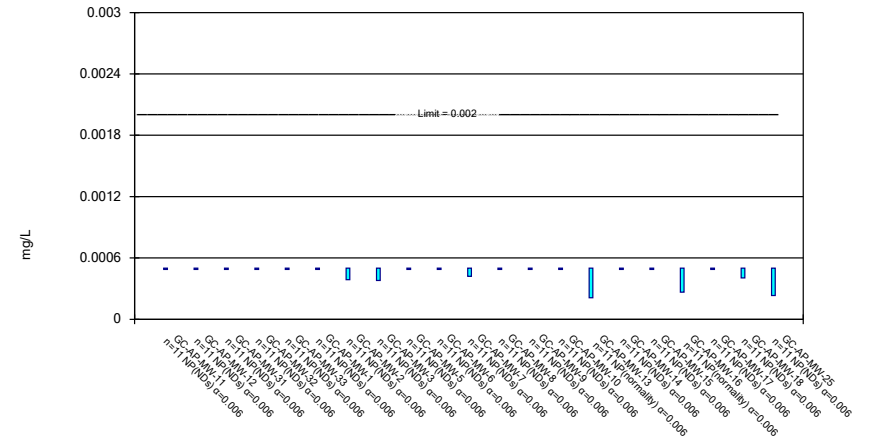
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/31/2019 12:25 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 1/31/2019 12:25 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP