

**2017 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT MILLER
ASH POND**

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Prepared for

Alabama Power Company
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By

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ABBREVIATIONS

AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASTM	American Society for Testing Materials
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
PE	Professional Engineer
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
TAL	Test America, Inc.
TDS	total dissolved solids
TOC	top of casing
USGS	United States Geological Survey

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR 257 Subpart D), this 2017 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2017 groundwater monitoring activities at the Plant Miller, Ash Pond and satisfies the requirements of §257.90(e). Semi-annual monitoring and reporting for Plant Miller Ash Pond is performed in accordance with the monitoring requirements §257.90 through §257.94.

2.0 SITE LOCATION AND DESCRIPTION

Alabama Power Company's James H. Miller, Jr., Electric Generating Plant (Plant Miller) is located at 4250 Porter Road, Quinton, AL 35130-9471. Plant Miller is approximately fifteen miles northwest of Birmingham in western Jefferson County, Alabama. The plant occupies Sections 21, 22, 27, 28, 29, 32, 33, and 34, Township 16 South, Range 5 West and Section 4, Township 17 South, Range 5 West (Section/Township/Range data based on visual inspection of USGS topographic quadrangle maps and GIS plant boundary files provided by Southern Company) (USGS, 1982; USGS, 1983).

The Ash Pond is located south of the main plant. **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 Miller is in the Black Warrior River basin, an area typified by moderate relief, with river and stream valleys having dendritic drainage patterns. Elevations at the site range from approximately 260 feet above mean sea level (MSL) near the Locust Fork to over 550 feet MSL along ridges north and south of the ash pond.

3.2 Geology and Hydrogeology

Plant Miller lies in the Warrior Basin physiographic region (Sapp and Emplaincourt, 1975), a late Paleozoic basin formed as a result of flexure and sediment loading associated with Appalachian and Ouachita orogenies. The bedrock geology is dominated by clastic sedimentary rocks of the Lower Pottsville Formation as shown on **Figure 2, Site Geologic Map** (GSA, 2010b). The lower Pottsville formation directly underlies Plant Miller and extends down to a depth of approximately 2,100 feet below ground surface. This formation is characterized by cyclic sequences (cyclothems) of marginal marine shale/claystone, siltstone, sandstone, conglomerates, and individual coal beds. These depositional cyclothems reflects the sediment balance controlled by 4th or 5th order glacial eustasy, continued basin evolution, and variations in sedimentation rates (Pashin and Raymond, 2004). Deeper stratigraphy is marked by carbonates, shales, chert, and sandstones of Mississippian to Cambrian in age (Raymond et al., 1988).

The Plant Miller Ash Pond is directly underlain by rocks belonging to the Mary Lee, Gillespy, and Pratt Coal Groups (Ward II et al., 1989) of the Lower Pottsville Formation. In general, each coal group consists of mudstone, shale, fine-grained sandstone, and interbedded coal in fining-upward sequences. Each coal

group is bounded by a maximum flooding surface and marine shale unit. Lower Pottsville strata at Plant Miller are on the southeast limb of the Sequatchie Anticline and dip to the southeast between 3° and 5°.

The Mary Lee Coal Seam, near the top of the Mary Lee Coal Group, exists between elevation 182 feet mean seal level (ft MSL) to close to zero (0) ft MSL from northwest to southeast, respectively. The Mary Lee seam is generally between 6 and 8 feet in thickness and often, divided into two parts by a thin 1 to 2 foot zone of mudstone.

The Gillespy Coal Group overlies the Mary Lee Coal Group beneath the site. The Gillespy Coal Group is comprised of marine shale fining upward into a sandy mudstone and capped by a thin sequence of coal and sandstone. The Gillespy Coal Seam is thin to absent (0.5 to 1 ft) across the site..

The Pratt Coal Group overlies the Gillespy Coal Group beneath the site. The Pratt Coal Group generally contains 3 named coal seams each separated by 25 to 50 feet of intraburden. In ascending order, they are, the American, Nickel Plate, and Pratt coal seams. The Pratt Coal Group generally contains more sandstone units than the Mary Lee and Gillespy Coal Groups. The Pottsville aquifer system is the primary aquifer in Walker County. Although on a regional scale there are other aquifer systems in the vicinity of Plant Miller, the Pottsville aquifer system is the most significant. The nearest exposure of the Valley and Ridge aquifer system occurs in central Jefferson County, approximately 25 miles east of Plant Miller. The nearest exposure of the Tuscaloosa aquifer system occurs in northwesternmost Walker County, approximately 30 miles northwest of Plant Miller. The Tuscaloosa aquifer system is not considered a primary source of groundwater in Walker County (Stricklin, 1989).

The Pottsville aquifer system is comprised primarily of Pennsylvanian-aged sandstones, shales, conglomerates, and coal. Groundwater flow primarily occurs via coal seams or rock fabric discontinuities such as bedding planes and fractures. Groundwater in the Pottsville aquifer is commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). Recharge to the Pottsville formation is largely through rainfall infiltration and to a lesser extent, downward seepage of river water at hydraulically favored locations. Recharge is accommodated largely by fracture enhanced permeability. Major recharge zones to the Pottsville Formation are related to major geologic structures such as large fault zones or along systematic fold axes (Pashin, 2007). Although the Pottsville aquifer system is the primary aquifer in Walker County, groundwater use is relatively limited. According to O'Rear et al., 1972, groundwater use accounted for approximately 15% of total water use in Walker County in 1966. By 2005, groundwater use had declined to less than 1% of total water use in Walker County, or 1.14 million gallons per day (mgd) of groundwater out of a total water use of 969.5 mgd (USGS, 2005).

3.3 Uppermost Aquifer

The Pottsville aquifer is the uppermost aquifer beneath the site. Groundwater occurs in the Mary Lee, Gillespy, and Pratt Coal Groups of the Lower Pottsville Formation beneath the site. The Mary Lee Coal Group is the uppermost aquifer north of the ash pond, the Gillespy Coal Group is the uppermost aquifer beneath the north-central portion of the ash pond, and the Pratt Coal Group is the uppermost aquifer beneath the southern portion of the pond. The primary occurrence of groundwater in the uppermost aquifer are: (1) coal seams, (2) rock fractures or zones of fracture enhanced permeability, and to a lesser extent (3) bedding plains. Wells were generally screened across coal seams or groundwater yielding fractures. Depth to groundwater producing zones were highly variable at the site and generally ranged from 30 to 300 feet BGS. Caliper, natural gamma, normal resistivity, fluid temperature, fluid resistivity logs, and heat pulse flowmeter logs were utilized to determine groundwater yielding zones. Packer testing was utilized in select borings to further enhance characterization.

Based on published data, groundwater quality produced from the Pottsville Formation can be characterized by high concentrations of sulfate, iron, and other trace metals (Jennings and Cook, 2010). Trace metals in Pottsville Formation groundwater are associated with sulfide minerals contained in organic-rich strata (e.g., Mudstones and Coal Seams) and siliceous/carbonate healed fractures and joints. Trace element enrichment is likely the result of migrating hydrothermal fluids generated during the late Paleozoic Allegheny orogeny (Diehl et al., 2005). Arsenic, antimony, molybdenum, selenium, copper, thallium, and mercury are elevated in Warrior Basin coal strata (Goldhaber et al., 2002).

3.4 Flow Interpretation

Lateral groundwater flow is radial beneath the site. Paired well locations and heat pulse flowmeter logging indicate that downward vertical flow is an important component of groundwater flow within the uppermost aquifer at the site. The complex lithostratigraphy, sharp permeability contrasts, and fractured nature of the Pottsville Formation contribute to vertical groundwater flow at the site.

4.0 GROUNDWATER MONITORING SYSTEM

Pursuant to §257.91, Plant Miller has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The PE-certified groundwater monitoring system for the Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation measurements.

Monitoring wells were screened in the Pottsville Aquifer. The uppermost aquifer beneath the Plant Miller Ash Pond corresponds to coal seams and fractured intervals of mudstone and sandstone within the Mary Lee, Gillespy, and Pratt Coal groups. The monitoring system is designed to monitor water quality as groundwater flows to the north, east, south, and west across the site. When multiple flow zones were identified by geophysical logging, paired locations were installed to monitor vertical groundwater flow. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers”, ASTM Subcommittee D18.21, as a guide.

4.1 Monitoring Wells

High-producing water-bearing zones are not prevalent at the site. Twenty-two (22) borings were conducted around the periphery of the ash pond. These borings were extended down through to depths between 50 and 350 feet BGS. Geophysical logging and packer testing was conducted to assess groundwater yielding zones within the cored borehole. Monitoring wells were screened across water-producing intervals as determined by the results of these tests. Preliminary purging and developing was then utilized to determine if wells yielded sufficient groundwater for low-flow methods. The groundwater monitoring network as determined by these efforts is comprised of 22 monitoring wells. As required by §257.90(e)(1), monitoring well locations referenced to the Ash Pond 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 Miller Ash Pond.

4.1.1 Upgradient Wells

Due to the radial groundwater flow at the site, no truly upgradient wells could be sited or installed in the vicinity of the Ash Pond. Therefore, upgradient monitoring well locations GS-AP-MW-8 and GS-AP-MW-13 from Gorgas Ash Pond serve as upgradient/background locations for Miller Ash Pond. These wells are considered to be representative background because (1) they are installed in the same hydrogeologic system as the monitoring well system at Plant Miller, (2) they have not been impacted by the Gorgas Ash Pond, and (3) they are located within approximately 8 miles of Plant Miller.

4.1.2 Downgradient Wells

Monitoring well locations MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3S, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-7S, MR-AP-MW-7D, MR-AP-MW-8S, MR-AP-MW-8D, MR-AP-MW-9S, MR-AP-MW-9D, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13S, MR-AP-MW-14, MR-AP-MW-15, and MR-AP-MW-16 are utilized as

downgradient locations for the Ash Pond. Downgradient locations are located along the perimeter of the Ash Pond.

Well Name	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Purpose
MR-AP-MW-1	4/18/2016	1315796.443	2101586.68	470.67	473.68	195.01	185.01	Downgradient
MR-AP-MW-2	3/9/2016	1315515.68	2100270.201	478.83	482.33	258.64	248.64	Downgradient
MR-AP-MW-3S	4/16/2016	1314490.679	2101150.356	433.34	436.27	319.91	299.91	Downgradient
MR-AP-MW-3D	2/6/2016	1314503.233	2101142.734	433.94	437.06	290.15	270.15	Downgradient
MR-AP-MW-4	2/7/2016	1313401.854	2101331.314	419.22	422.47	376.59	356.59	Downgradient
MR-AP-MW-5	2/8/2016	1312237.966	2101237.427	276.15	279.22	231.22	221.22	Downgradient
MR-AP-PZ-5	3/16/2016	1312254.516	2101252.269	277.22	279.66	53.66	43.66	Downgradient
MR-AP-MW-6	2/9/2016	1311543.398	2101826.033	371.03	374.30	341.63	331.63	Downgradient
MR-AP-MW-7S	2/11/2016	1311085.053	2102441.432	338.25	341.75	311.32	301.32	Downgradient
MR-AP-MW-7D	4/19/2016	1311089.176	2102424.149	338.27	341.51	238.36	228.36	Downgradient
MR-AP-MW-8S	2/27/2016	1311324.702	2103319.766	455.03	458.06	417.40	407.40	Downgradient
MR-AP-MW-8D	2/26/2016	1311320.933	2103304.454	454.39	457.64	390.27	380.27	Downgradient
MR-AP-MW-9S	4/12/2016	1311448.066	2103706.868	446.35	449.63	417.54	407.54	Downgradient
MR-AP-MW-9D	12/10/2015	1311419.682	2103661.771	446.40	449.71	355.32	345.32	Downgradient
MR-AP-MW-10	3/29/2016	1311111.833	2104370.288	538.09	541.74	374.22	364.22	Downgradient
MR-AP-MW-11	3/30/2016	1311434.723	2105563.036	590.92	594.02	332.98	322.98	Downgradient
MR-AP-MW-12	2/24/2016	1313191.812	2105182.709	501.46	504.53	395.72	385.72	Downgradient
MR-AP-MW-13D	2/25/2016	1314114.769	2104830.326	434.51	437.36	364.09	354.09	Downgradient
MR-AP-MW-13S	4/12/2016	1314110.288	2104848.862	434.76	437.74	406.73	396.73	Downgradient
MR-AP-MW-14	2/26/2016	1314759.424	2104706.671	427.57	430.69	389.10	379.10	Downgradient
MR-AP-MW-15	2/29/2016	1315249.573	2104131.684	410.46	413.65	386.11	376.11	Downgradient
MR-AP-MW-16	2/17/2016	1315642.521	2103360.223	415.27	418.55	390.27	380.27	Downgradient
GS-AP-MW-8	2/26/2016	1323405.23	2062398.47	431.63	434.61	390.63	370.63	Upgradient
GS-AP-MW-13	2/4/2016	1319377.84	2064083.37	461.03	464.20	371.03	351.03	Upgradient

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 (ft MSL).

5.0 GROUNDWATER MONITORING HISTORY

As required by §257.90(e), the following describes monitoring-related activities performed during the preceding year. Since this is the first *Annual Groundwater Monitoring and Corrective Action Report*, it also describes related activities performed prior to 2017.

5.1 Available Monitoring Data

In accordance with §257.94(b), the detection groundwater program was implemented by collecting 8 independent samples. Samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV. Background sampling was performed over the period from July 2016 to June 2017.

Following background monitoring, the initial detection monitoring event was completed by collecting an additional round of groundwater samples in September 2017. Groundwater samples were collected from each monitoring well and analyzed for Appendix III constituents according to §257.94(a). Analytical data from the background and initial groundwater monitoring events is included as **Appendix A, Groundwater Analytical Data**, in accordance with the requirements of §257.90(e)(3).

Table 2, Historical Well Sampling Summary, presents a summary of groundwater sampling events completed at the site for the preceding year, as well as background samples collected prior to 2017. Table 2 also identifies the purpose of the sampling event (i.e., background data, detection monitoring event, verification event).

5.2 Historical Groundwater Flow

Lateral groundwater flow is radial beneath the site. Paired well locations and heat pulse flowmeter logging indicate that downward vertical flow is an important component of groundwater flow within the uppermost aquifer at the site. The complex lithostratigraphy, sharp permeability contrasts, and fractured nature of the Pottsville Formation contribute to vertical groundwater flow at the site.

Groundwater elevations fluctuate in response to rainfall. Seasonal variations of 0.7 to 7 feet are typical at the site. **Figure 4, Potentiometric Surface Map (August 2017)**, confirms that groundwater flow direction is consistent despite seasonal fluctuations. Groundwater elevation data indicates that water levels tend to be higher in the spring and early summer and lower during the fall. **Table 3, Historical Groundwater Elevations Summary** below provides a summary of water level data for the site.

Table 2. Historical Well Sampling Summary									
	Background								Detection
Event	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	D.1
Date	7/2016	9/2016	10/2016	1/2017	2/2017	4/2017	5/2017	6/2017	9/2017

Notes: (1) B.# indicates background event
 (2) D.# indicates detection monitoring event.

Table 3. Historical Groundwater Elevations Summary				
Well ID	Average GW Elevation (ft MSL)	Highest GW Elevation (ft MSL)	Lowest GW Elevation (ft MSL)	GW Elevation Variation (ft)
MR-AP-MW-1	279.39	282.04	277.54	4.50
MR-AP-MW-2	279.32	281.84	277.37	4.47
MR-AP-MW-3S	346.93	348.13	346.22	1.91
MR-AP-MW-3D	327.62	333.38	325.96	7.42
MR-AP-MW-4	381.11	381.61	380.90	0.71
MR-AP-MW-5	Artesian	Artesian	Artesian	Artesian
MR-AP-PZ-5	Artesian	Artesian	277.47	Artesian
MR-AP-MW-6	Artesian	Artesian	Artesian	Artesian
MR-AP-MW-7S	325.38	326.96	324.30	2.66
MR-AP-MW-7D	258.28	261.57	257.24	4.33
MR-AP-MW-8S	419.54	420.70	419.25	1.45
MR-AP-MW-8D	413.07	414.10	412.29	1.81
MR-AP-MW-9S	420.81	424.68	418.44	6.24
MR-AP-MW-9D	412.79	413.51	412.38	1.13
MR-AP-MW-10	413.54	414.64	412.63	2.01
MR-AP-MW-11	363.87	366.69	361.79	4.90
MR-AP-MW-12	416.22	416.97	415.85	1.12
MR-AP-MW-13D	417.15	423.41	407.34	12.98
MR-AP-MW-13S	423.31	424.63	422.42	2.21
MR-AP-MW-14	410.33	412.38	408.92	3.46
MR-AP-MW-15	401.27	402.14	400.35	1.79
MR-AP-MW-16	389.47	394.37	387.53	6.84
GS-AP-MW-8	388.33	389.87	386.81	3.06
GS-AP-MW-13	393.49	394.80	392.67	2.13

*Groundwater elevations are referenced to NAVD88

6.0 GROUNDWATER SAMPLING AND ANALYSIS

6.1 Sampling Event Summary

Groundwater sampling for the initial detection monitoring event was performed in September 2017. Samples were analyzed for the constituents listed in Appendix III. Analytical data from the groundwater monitoring events are included as Appendix A.

6.2 Groundwater Sample Collection

Groundwater samples were collected by APC Field Services in accordance with §257.93(a). All monitoring wells at the Plant Miller Ash Pond are equipped with a dedicated bladder 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:

- 0.1 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.

6.3 Sample Preservation and Handling

Groundwater samples are collected within the designated size and type of containers required for specific parameters. Sample bottles were pre-preserved by the laboratory and did not require field preservation. Where temperature control is required, samples were placed in an ice-packed cooler.

6.4 Chain of Custody

All samples were handled under COC procedures beginning in the field through delivery to the laboratory. The COC forms contain the following information:

- Sample destination and transporter,
- Sample identification numbers,
- Signature of collector,
- Date and time of collection,
- Identification of monitoring well,

- Number of sample containers,
- Parameters requested for analysis,
- Signature of person(s) involved in the chain of possession, and
- Inclusive dates of possession.

6.5 Laboratory Analysis

Groundwater samples collected for background data included both Appendix III and Appendix IV parameters. Groundwater samples collected during the September 2017 detection monitoring event were analyzed for Appendix III monitoring parameters only. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix A.

Laboratory analyses were 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.

6.6 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 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.

7.0 GROUNDWATER DATA EVALUATION

7.1 Groundwater Elevation Data Evaluation

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

During the initial detection monitoring event, static groundwater elevations obtained prior to purging and sampling ranged from 257.67 to 393.71 feet MSL. Groundwater levels for the most recent sampling event are included in **Table 4, Groundwater Elevations (September 2017)**.

The most recent potentiometric surface map presented in **Figure 4, Potentiometric Surface Map (August 2017)**, shows that lateral groundwater flow is primarily to the north and south within the uppermost aquifer beneath the site.

Table 4. Groundwater Elevations (September 2017)

Well ID	TOC Elev (ft MSL)	Depth to GW (ft TOC)	GW Elevation
MR-AP-MW-1	473.68	193.96	279.72
MR-AP-MW-2	482.33	202.71	279.62
MR-AP-MW-3S	436.27	89.2	347.07
MR-AP-MW-3D	437.06	110.37	326.686
MR-AP-MW-4	422.47	41.44	381.03
MR-AP-MW-5	279.22	Artesian	Artesian (+279.22)
MR-AP-PZ-5	279.66	Artesian	Artesian (+279.66)
MR-AP-MW-6	374.30	Artesian	Artesian (+374.30)
MR-AP-MW-7S	341.75	14.79	326.956
MR-AP-MW-7D	341.51	83.46	258.05
MR-AP-MW-8S	458.06	38.64	419.42
MR-AP-MW-8D	457.64	44.13	413.51
MR-AP-MW-9S	449.63	28.51	421.12
MR-AP-MW-9D	449.71	36.83	412.88
MR-AP-MW-10	541.74	127.35	414.39
MR-AP-MW-11	594.02	227.33	366.69
MR-AP-MW-12	504.53	88.1	416.43
MR-AP-MW-13D	437.36	30.02	407.34
MR-AP-MW-13S	437.74	13.95	423.79
MR-AP-MW-14	430.69	19.76	410.93
MR-AP-MW-15	413.65	11.64	402.01
MR-AP-MW-16	418.55	29.18	389.37

Note: 'Artesian' indicates that the water level was above the top of the well casing.

8.0 BACKGROUND GROUNDWATER DATA QUALITY

Groundwater elevation data and potentiometric surface maps were utilized to determine upgradient or “background” monitoring well locations. These well locations provide representative samples of groundwater quality as it enters the site.

8.1 Statistical Methodology and Tests

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limit methods, combined with a 1-of-2 verification plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there has been an initial statistically significant increase (SSI) over background groundwater quality.

Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers are formally tested using Tukey’s box plot method when applicable and, when identified, are flagged in the computer database and deselected prior to construction of statistical limits.

No outliers were identified for any of the Appendix III parameters at any of the wells except for calcium in well MR-AP-PZ-5 with a reported value of 246.4 mg/L on 9/28/2016. Flagged values are plotted in a lighter font on the time series graphs, and appear as an observation that is not connected to data within the well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

The Sen’s Slope/Mann Kendall trend test was used to evaluate all proposed background data to identify statistically significant increasing or decreasing trends. The results of the trend analyses showed several statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations, therefore, no adjustments were made to any of the data sets.

Prediction limits were constructed as recommended in the USEPA Unified guidance, and based on the following:

- Annual false positive rate of 10%
- 1-of-2 verification resample plan option for interwell prediction limits
- Semi-annual sampling
- Constituents = 7 (Appendix III)
- Downgradient wells = 20

Parametric prediction limits are used when the screened historical data follow a normal or transformed-normal distribution. When data could not be normalized or when the majority of data were non-detects, a non-parametric test was utilized. The confidence level associated with both tests is greater than 99%. The distribution of data was tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (USEPA, 2009), data were analyzed using either parametric or non-parametric prediction limits.

The following guidance is also applicable to the statistical analysis method:

- statistical analyses are not performed on analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in the background, simple substitution of one-half the reporting limit may be utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data.
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

The statistical evaluation reports are located in **Appendix B, Statistical Data Evaluation**.

8.2 Statistical Exceedances

Analytical data from the initial detection monitoring event in September 2017 at the Ash Pond was statistically analyzed in accordance with the PE - certified statistical methods described above. Based on the statistical analysis included in Appendix B, SSIs of the prediction limit were identified. Summary tables identifying the SSIs are included in Appendix B.

8.3 Verification Sampling

The statistical methods incorporate the option of resampling to verify SSIs. Verification sampling was not conducted for the initial detection monitoring event; therefore, the initial SSIs are treated as verified.

8.4 Appendix IV Background Data

Pursuant to §257.95, Appendix IV groundwater quality data is statistically analyzed and compared to groundwater protection standards if assessment monitoring is implemented. APC is currently performing detection monitoring at the Ash Pond per §257.94 and has not implemented assessment monitoring. Therefore, statistical analysis of the Appendix IV data has not been performed.

9.0 MONITORING PROGRAM STATUS

Plant Miller Ash Pond is in detection monitoring. SSIs of Appendix III parameters have been identified. Pursuant to §257.94(e)(1), APC has 90 days from the date of determination to either (1) prepare a demonstration that a source other than the Ash Pond was the cause, or (2) implement assessment monitoring per §257.95. APC will address the reported SSIs in accordance with the requirements, and options, of §257.94(e)(1-3) and (f).

10.0 CONCLUSIONS AND FUTURE ACTIONS

Presently, Plant Miller Ash Pond is in Detection Monitoring. Statistical evaluations of the groundwater monitoring data for the Ash Pond identified SSIs of Appendix III groundwater monitoring parameters. In accordance with §257.94(e)(1-2), APC will conduct an alternate source demonstration or initiate assessment monitoring program within 90 days. Alabama Power has 90 days from the date of determination to either (1) prepare a demonstration that a release from the Ash Pond was not the cause, or (2) implement assessment monitoring per §257.95. APC will perform the following future actions:

- Conduct alternate source demonstration or complete groundwater sampling for Assessment Monitoring within 90 days of determining the SSI, and
- Conduct the first semi-annual detection monitoring event by April 2018.

11.0 REFERENCES

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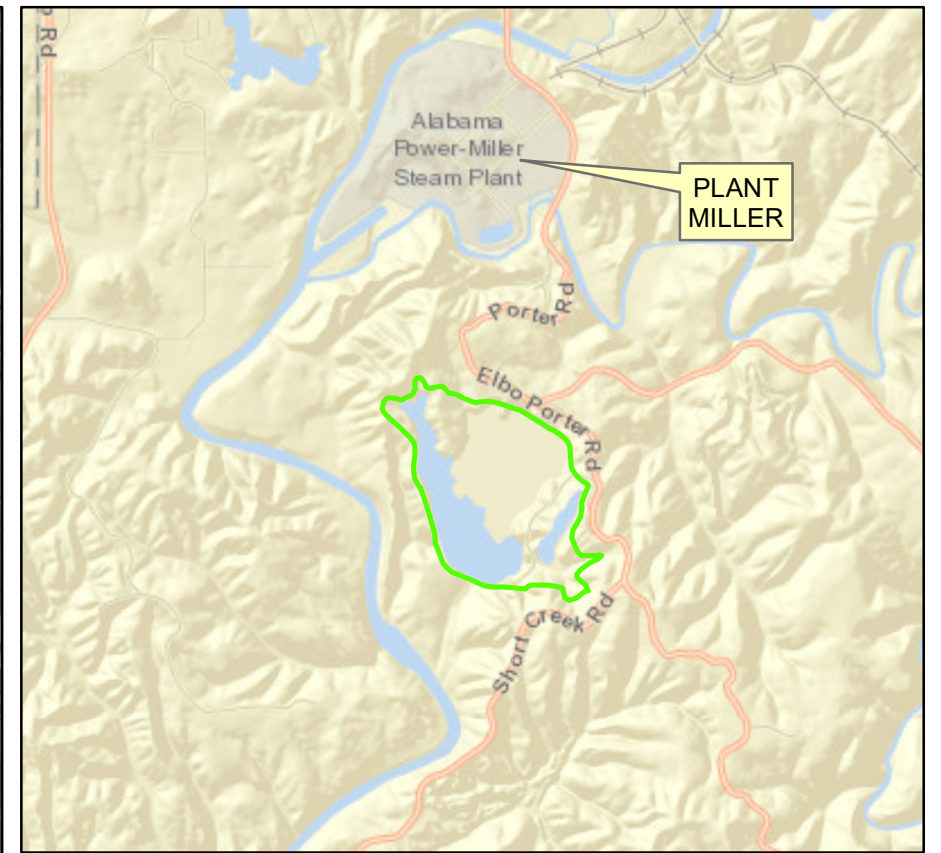
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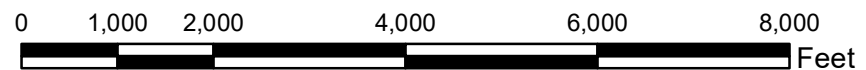
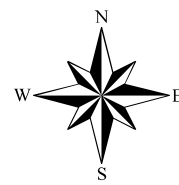
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Figures



Legend

Ash Pond Boundary



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**PLANT MILLER
ASH POND
FIGURE 1
SITE LOCATION MAP**

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

FOR

Alabama Power Company					
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:24k		ES4075-S1	1		

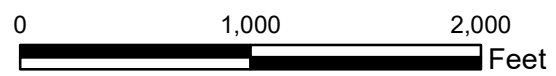
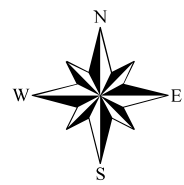


Legend

Ash Pond Boundary

Geologic Units

Pottsville Formation (upper part), Appalachian Plateaus



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

FOR

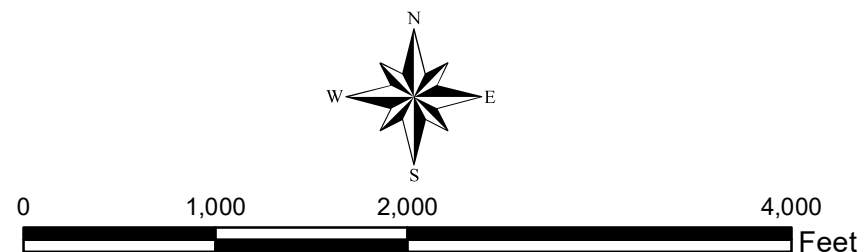
**PLANT MILLER
ASH POND
FIGURE 2
SITE GEOLOGIC MAP**

Alabama Power Company					
SCALE	PROJ. I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:24k		ES4075-S2	1		



Legend

- Monitoring Well Network
- Ash Pond Boundary



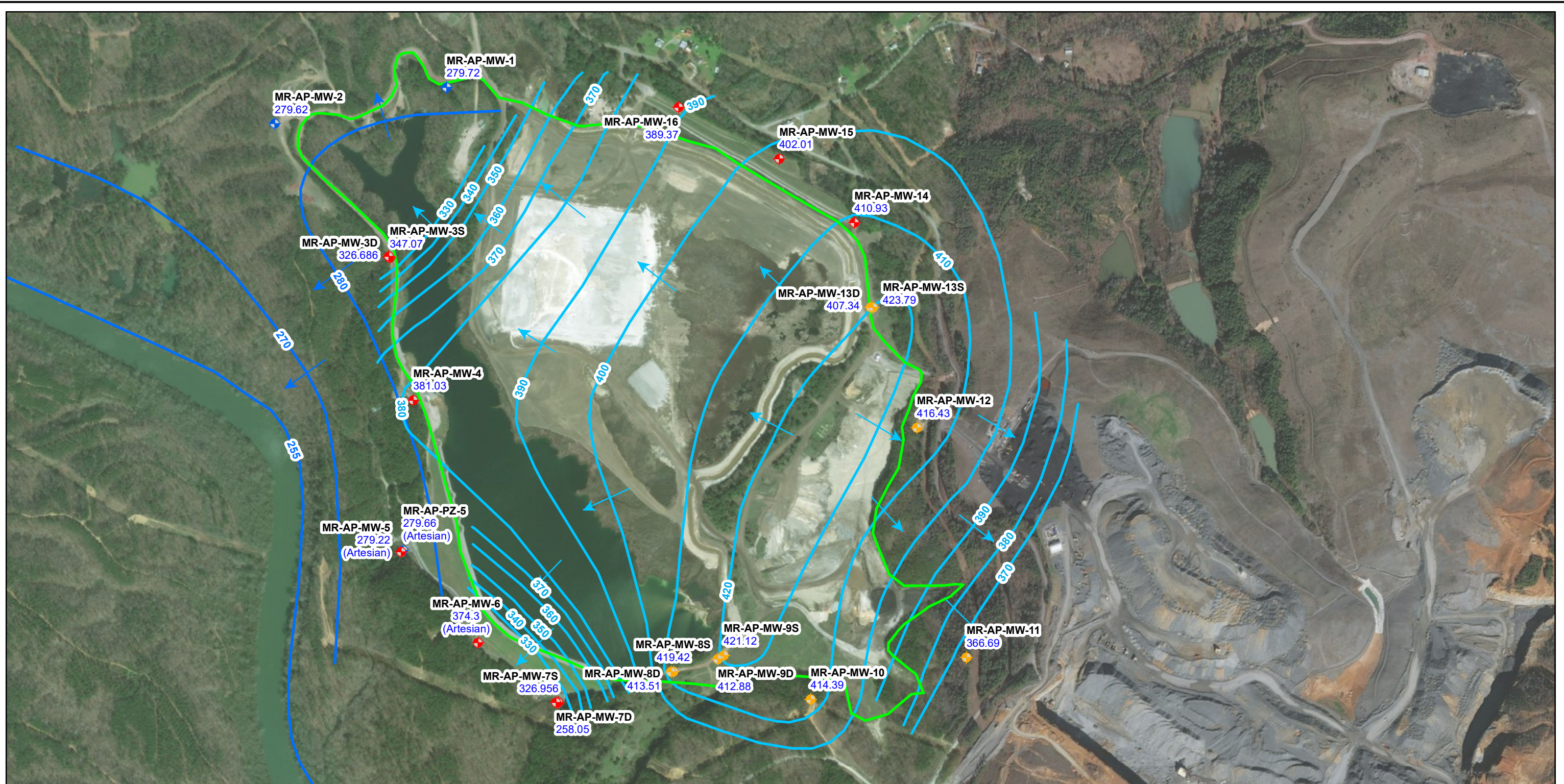
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**PLANT MILLER
ASH POND
FIGURE 3
MONITORING WELL LOCATION MAP**

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

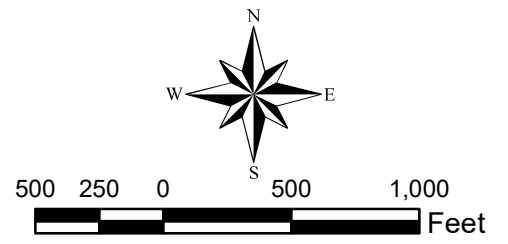
FOR

Alabama Power Company					
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:12k		ES4075-S3	1		



Legend	
	Monitoring Well (Gillespy Aquifer)
	Monitoring Well (Pratt Aquifer)
	Monitoring Well (Mary Lee Aquifer)
	Ash Pond Boundary
	Approximate Groundwater Flow Direction (Gillespy and Pratt Aquifers)
	Conceptual Potentiometric Surface Contour (Gillespy and Pratt Aquifers)
	Approximate Groundwater Flow Direction (Mary Lee Aquifer)
	Conceptual Potentiometric Surface Contour (Mary Lee Aquifer)

MR-AP-MW-1	Well ID
279.72	Groundwater Elevation (ft NAVD88)



NOTE: NAVD88 indicates North American Vertical Datum of 1988.

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**PLANT MILLER
ASH POND
FIGURE 4
POTENTIOMETRIC SURFACE MAP
SEPTEMBER 18, 2017**

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

FOR

Alabama Power Company					
SCALE	PROJ I.D.	DRAWING NUMBER	SHEET	CONT'D	REV
1:9k		ES4075-S4	1		

Appendix A

Groundwater Analytical Data

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

 Alabama Power



Sample Group : WMWMILAP_32

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_32

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
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>Chloride Batch ID</u>	<u>Fluoride Batch ID</u>	<u>Sulfate Batch ID</u>	<u>Project ID</u>
AW18158	570417	570418	570419	WMWMILAP_32
AW18159	570417	570418	570419	WMWMILAP_32
AW18160	570417	570418	570419	WMWMILAP_32
AW18161	570417	570418	570419	WMWMILAP_32
AW18162	570417	570418	570419	WMWMILAP_32
AW18163	570417	570418	570419	WMWMILAP_32
AW18267	570435	570436	570439	WMWMILAP_32
AW18268	570435	570436	570439	WMWMILAP_32
AW18269	570435	570436	570439	WMWMILAP_32
AW18270	570435	570436	570439	WMWMILAP_32
AW18271	570435	570436	570439	WMWMILAP_32
AW18272	570435	570436	570439	WMWMILAP_32
AW18387	570435	570436	570439	WMWMILAP_32
AW18388	570435	570436	570439	WMWMILAP_32
AW18389	570435	570436	570439	WMWMILAP_32
AW18390	570435	570436	570439	WMWMILAP_32
AW18704	570686	570687	570690	WMWMILAP_32
AW18705	570686	570687	570690	WMWMILAP_32
AW18706	570686	570687	570690	WMWMILAP_32
AW18707	570686	570687	570690	WMWMILAP_32
AW18708	570686	570687	570690	WMWMILAP_32
AW18709	570686	570687	570690	WMWMILAP_32
AW18710	570686	570687	570690	WMWMILAP_32
AW18711	570686	570687	570690	WMWMILAP_32
AW18712	570686	570687	570690	WMWMILAP_32
AW18879	570732	570733	570736	WMWMILAP_32
AW18880	570732	570733	570736	WMWMILAP_32
AW18881	570732	570733	570736	WMWMILAP_32
AW18882	570732	570733	570736	WMWMILAP_32



4. All of the above samples were analyzed and prepared by EPA 300.0.
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 instrument performance check (IPC) was analyzed and all criteria were met.
- All laboratory reagent blanks were less than the method detection limits for the requested anions, with the following exception: the blank for anion sulfate presented a concentration above the MDL of 0.3, at 0.347 mg/L for batch 570690 and at 0.351 mg/L for batch 570736. Since the concentrations of sulfate in samples AW18710 and AW18711 (0.417 and 0.384 mg/L, respectively) and AW18880 (0.368 mg/L) were below 10x the associated blank concentration, these samples should be reported as non-detect 'U' at the reporting limit value.
- All laboratory fortified blanks (LFB) were within acceptance criteria for the anions requested. No closing LFB was listed or run for the dilution re-analyses for sulfate for batches 570419, 570439, & 570736. Due to absence of a closing LFB, the reported results for the following sample dilutions for sulfate are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AW18158, AW18159, AW18162, AW18250, AW018251, AW18160, AW18161, AW18269, AW18270, AW18272, AW18387, AW18388, AW18389, AW18390, AW18879, AW18881, & AW18882.
- No closing LFB was listed or run for the dilution re-analysis for chloride for batches 570417 & 570732. Due to absence of a closing LFB, the reported results for the following sample dilutions for chloride are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AW18158, AW18160, AW18161, AW18250, AW18251, AW18879, AW18881, & AW18882.
- 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 laboratory fortified matrix (LFM) sample was analyzed with each batch. All acceptance criteria for accuracy were met. It is noted that since the undiluted LFM for sulfate in batches 570690 & 570736 exceeded the spike-added concentration by >4x (at 25x & 20X, respectively), the recovery for this sample was not applicable, and the diluted LFM sample was spiked at 20x & 10X normal concentration, with acceptable recovery.
 - A sample duplicate and/or laboratory fortified matrix duplicate were analyzed with each batch. All acceptance criteria for precision were met. It is noted that separate and distinct criteria for duplicate precision calculations, based on sample and duplicate anion concentrations, are used to assess precision compliance. These are as follow: if the sample and duplicate are both greater than 5x anion Reporting Limit (RL) concentration, the precision is calculated and reported as relative percent difference (RPD), with an acceptance range of 0 - 20%; if either the sample or duplicate are less than 5x anion RL, the precision is calculated and reported as the absolute value of the difference between the two concentrations, with an acceptance range of less than or equal to the anion RL value.
7. Samples AW18158, AW18250, AW18251, AW18879, & AW18882 were re-analyzed for chloride at a 10X dilution, samples AW18160, AW18161, & AW18881 were re-analyzed for chloride at a 20X dilution, due to undiluted results exceeding the calibrated range of the detector. Samples AW18158, AW18159, AW18162, AW18269, AW18272, AW18387, AW18388, AW18389, AW18390, AW18705, AW18706, AW18707, AW18879, & AW18882 were re-analyzed for sulfate at a 10x dilution, samples AW18160, AW18161, AW18270, AW18704, AW18708, AW18712, & AW18881 were re-analyzed at a 20x dilution, and sample AW18709 was re-analyzed at a 30x dilution, due to undiluted results exceeding the calibrated range of the detector. The dilution results for chloride & sulfate for these samples should be used; reporting limit (RL) values are adjusted upward to reflect the dilution factor applied.

Case Narrative



<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AW18158	Chloride & Sulfate	10X
AW18250	Chloride	10X
AW18251	Chloride	10X
AW18159	Sulfate	10X
AW18162	Sulfate	10X
AW18269	Sulfate	10X
AW18272	Sulfate	10X
AW18387	Sulfate	10X
AW18388	Sulfate	10X
AW18389	Sulfate	10X
AW18390	Sulfate	10X
AW18705	Sulfate	10X
AW18706	Sulfate	10X
AW18707	Sulfate	10X
AW18879	Chloride & Sulfate	10X
AW18882	Chloride & Sulfate	10X
AW18160	Chloride & Sulfate	20X
AW18161	Chloride & Sulfate	20X
AW18270	Sulfate	20X
AW18704	Sulfate	20X
AW18708	Sulfate	20X
AW18712	Sulfate	20X
AW18881	Chloride & Sulfate	20X
AW18709	Sulfate	30X

8. The raw data results are shown with dilution factors included, when dilutions are manually performed by the analyst.

The raw data results are shown without dilution factor corrections, when dilutions are run automatically by the instrument.



Metals ICP

Miller Ash Pond

WMWMILAP_32

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
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>
AW18158	20160811	WMWMILAP_32
AW18159	20160811	WMWMILAP_32
AW18160	20160811	WMWMILAP_32
AW18161	20160811	WMWMILAP_32
AW18162	20160811	WMWMILAP_32
AW18163	20160811	WMWMILAP_32
AW18267	20160811	WMWMILAP_32
AW18268	20160811	WMWMILAP_32
AW18269	20160811	WMWMILAP_32
AW18270	20160811	WMWMILAP_32
AW18271	20160811C	WMWMILAP_32
AW18272	20160811C	WMWMILAP_32
AW18387	20160811C	WMWMILAP_32
AW18388	20160811C	WMWMILAP_32
AW18389	20160811C	WMWMILAP_32
AW18390	20160811C	WMWMILAP_32
AW18704	20160811C	WMWMILAP_32
AW18705	20160811C	WMWMILAP_32
AW18706	20160811C	WMWMILAP_32
AW18707	20160811C	WMWMILAP_32
AW18708	20160822	WMWMILAP_32
AW18709	20160822	WMWMILAP_32
AW18710	20160822	WMWMILAP_32
AW18711	20160822	WMWMILAP_32
AW18712	20160822	WMWMILAP_32
AW18879	20160822	WMWMILAP_32
AW18880	20160822	WMWMILAP_32
AW18881	20160822	WMWMILAP_32
AW18882	20160822	WMWMILAP_32



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

General Quality Control Procedures:

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

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AW18270
Calcium	AW18882

The concentrations of these analytes in the sample were greater than 3.3X the concentration of the matrix spike added during digestion, 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 without a dilution with the following exceptions: The following samples were diluted due to sample concentrations from the undiluted analysis were over the high standard of the calibration curve. For this Batch the undiluted dilution factor was 1.015. The following samples were diluted 1: 10 by adding 9mL of water to 1mL of the undiluted digested sample for a total volume of 10 mL. This gave a dilution factor of 10.15x.

Sample ID	Analyte	Dilution factor
AW18158	Calcium	10.15X
AW18160	Calcium	10.15X
AW18161	Calcium	10.15X
AW18162	Calcium	10.15X
AW18268	Calcium	10.15X
AW18270	Calcium	10.15X
AW18270MS	Calcium	10.15X
AW18270MS	Calcium	10.15X
AW18272	Calcium	10.15X
AW18387	Calcium	10.15X
AW18388	Calcium	10.15X
AW18389	Calcium	10.15X
AW18390	Calcium	10.15X
AW18704	Calcium	10.15X
AW18705	Calcium	10.15X
AW18706	Calcium	10.15X
AW18707	Calcium	10.15X
AW18707MS	Calcium	10.15X
AW18707MSD	Calcium	10.15X
AW18708	Calcium	10.15X
AW18709	Calcium	10.15X
AW18712	Calcium	10.15X
AW18879	Calcium	10.15X
AW18881	Calcium	10.15X
AW18882	Calcium	10.15X
AW18882MS	Calcium	10.15X
AW18882MSD	Calcium	10.15X

8. The raw data results include both results corrected for dilution and results not corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_32

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AW18158	570394	WMWMILAP_32
AW18159	570394	WMWMILAP_32
AW18160	570394	WMWMILAP_32
AW18161	570394	WMWMILAP_32
AW18162	570394	WMWMILAP_32
AW18163	570394	WMWMILAP_32
AW18267	571381	WMWMILAP_32
AW18268	571381	WMWMILAP_32
AW18269	571381	WMWMILAP_32
AW18270	571381	WMWMILAP_32
AW18271	571381	WMWMILAP_32
AW18272	571381	WMWMILAP_32
AW18387	571381	WMWMILAP_32
AW18388	571381	WMWMILAP_32
AW18389	571381	WMWMILAP_32
AW18390	571381	WMWMILAP_32
AW18704	571382	WMWMILAP_32
AW18705	571382	WMWMILAP_32
AW18706	571382	WMWMILAP_32
AW18707	571382	WMWMILAP_32
AW18708	571382	WMWMILAP_32
AW18709	571382	WMWMILAP_32
AW18710	571382	WMWMILAP_32
AW18711	571382	WMWMILAP_32
AW18712	571382	WMWMILAP_32
AW18879	571382	WMWMILAP_32
AW18880	571383	WMWMILAP_32
AW18881	571383	WMWMILAP_32
AW18882	571383	WMWMILAP_32



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.
7. Cadmium MDL increased from 0.0001 mg/L to 0.0002 mg/L. Sample ID AW18387 is now reported as Not Detected.

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



Mercury

Miller Ash Pond

WMWMILAP_32

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AW18158	570885	WMWMILAP_32
AW18159	570885	WMWMILAP_32
AW18160	570885	WMWMILAP_32
AW18161	570885	WMWMILAP_32
AW18162	570885	WMWMILAP_32
AW18163	571271	WMWMILAP_32
AW18267	571271	WMWMILAP_32
AW18268	571271	WMWMILAP_32
AW18269	571271	WMWMILAP_32
AW18270	571271	WMWMILAP_32
AW18271	571271	WMWMILAP_32
AW18272	571271	WMWMILAP_32
AW18387	571271	WMWMILAP_32
AW18388	571271	WMWMILAP_32
AW18389	571271	WMWMILAP_32
AW18390	571272	WMWMILAP_32
AW18704	571272	WMWMILAP_32
AW18705	571272	WMWMILAP_32
AW18706	571272	WMWMILAP_32
AW18707	571272	WMWMILAP_32
AW18708	571272	WMWMILAP_32
AW18709	571272	WMWMILAP_32
AW18710	571272	WMWMILAP_32
AW18711	571272	WMWMILAP_32
AW18712	571272	WMWMILAP_32
AW18879	572092	WMWMILAP_32
AW18880	572092	WMWMILAP_32
AW18881	572092	WMWMILAP_32
AW18882	572092	WMWMILAP_32

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

Miller Ash Pond

WMWMILAP_32

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
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>
AW18158	570399	WMWMILAP_32
AW18159	570399	WMWMILAP_32
AW18160	570399	WMWMILAP_32
AW18161	570399	WMWMILAP_32
AW18162	570399	WMWMILAP_32
AW18163	570399	WMWMILAP_32
AW18267	570536	WMWMILAP_32
AW18268	570536	WMWMILAP_32
AW18269	570536	WMWMILAP_32
AW18270	570536	WMWMILAP_32
AW18271	570536	WMWMILAP_32
AW18272	570536	WMWMILAP_32
AW18387	570537	WMWMILAP_32
AW18388	570537	WMWMILAP_32
AW18389	570537	WMWMILAP_32
AW18390	570537	WMWMILAP_32
AW18704	570731	WMWMILAP_32
AW18705	570731	WMWMILAP_32
AW18706	570731	WMWMILAP_32
AW18707	571050	WMWMILAP_32
AW18708	571050	WMWMILAP_32
AW18709	571050	WMWMILAP_32
AW18710	571050	WMWMILAP_32
AW18711	571050	WMWMILAP_32
AW18712	571050	WMWMILAP_32
AW18879	571219	WMWMILAP_32
AW18880	571219	WMWMILAP_32
AW18881	571219	WMWMILAP_32
AW18882	571219	WMWMILAP_32



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.
7. TDS reporting limit was incorrectly listed as 2.5 mg/L. Sample ID AW18880 is now Not Detected.

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 0.5 mg of the previous weight, with the exception of:

<u>Sample ID</u>	<u>Milligram Difference</u>
AW18268	1.1
AW18271	1.2
AW18388	1.1
AW18390	0.6

Samples with a milligram difference of 1.0 mg and above will be qualified. Samples with a milligram difference of less than 1.0 mg will remain unqualified, as this amount does not significantly affect reported results.

- 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 2.5 mg and 200 mg residue with the exception of AW18271, AW18710, AW18711 & AW18880 which were <2.5.

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW18158

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	J 0.000725	mg/L
* Arsenic, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	0.0105	mg/L
* Barium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0320	mg/L
* Beryllium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.527	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	296	mg/L
* Cadmium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	J 0.00796	mg/L
* Chromium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	7/29/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.128	mg/L
* Molybdenum, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0216	mg/L
* Lead, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/21/2016	SM 2540C		1		100	1530	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		10	0.40	2.50	52.7	mg/L
* Fluoride, Total	SES	7/20/2016	EPA 300.0		1	0.01	0.3	J 0.268	mg/L
* Sulfate, Total	SES	7/21/2016	EPA 300.0		10	3.0	10	900	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW18158

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW18251	Lead, Total	mg/L	0.00000870	0.0022	0.10	0.0999	0.101	0.085 to 0.115	99.9	70 to 130	0.892	20	
AW18251	Cadmium, Total	mg/L	0.000000731	0.00044	0.10	0.107	0.110	0.085 to 0.115	107	70 to 130	1.81	20	
AW18270	Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18162	Mercury, Total by CVAA	mg/L	0.0000971	0.0005	0.004	0.00395	0.00397	0.0034 to 0.0046	98.8	70 to 130	0.616	20	
AW18251	Beryllium, Total	mg/L	0.0000146	0.00132	0.10	0.104	0.111	0.085 to 0.115	104	70 to 130	1.28	20	
AW18270	Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.17 to 0.23	114	70 to 130	1.52	20	
AW18251	Antimony, Total	mg/L	0.000131	0.00132	0.10	0.0976	0.0997	0.085 to 0.115	97.6	70 to 130	2.13	20	
AW18251	Barium, Total	mg/L	0.000000928	0.0044	0.10	0.133	0.138	0.085 to 0.115	98.7	70 to 130	3.54	20	
AW18251	Chromium, Total	mg/L	0.00000629	0.0044	0.10	0.100	0.103	0.085 to 0.115	100	70 to 130	0.304	20	
AW18251	Selenium, Total	mg/L	0.0000541	0.0044	0.10	0.103	0.106	0.085 to 0.115	103	70 to 130	2.12	20	
AW18251	Arsenic, Total	mg/L	0.0000103	0.0022	0.10	0.100	0.105	0.085 to 0.115	100	70 to 130	0.179	20	
AW18251	Cobalt, Total	mg/L	0.00000160	0.0044	0.10	0.0951	0.0971	0.085 to 0.115	95.1	70 to 130	2.02	20	
AW18251	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.116	0.117	0.085 to 0.115	99.9	70 to 130	1.26	20	
AW18251	Thallium, Total	mg/L	0.00000559	0.00044	0.10	0.0987	0.0995	0.085 to 0.115	98.7	70 to 130	0.804	20	
AW18270	Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.85 to 1.15	100	70 to 130	0.297	20	

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW18158

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18163	Chloride, Total	mg/L	0.000	0.25	10.00	26.2		17.0	9.89	9 to 11	93.0	80 to 120	0.590	20
AW18163	Sulfate, Total	mg/L	0.000	1.0	20.00	87.1		69.3	19.3	18 to 22	89.0	80 to 120	0.00	20
AW17992	Solids, Dissolved	mg/L	4.0	25				536	53	40 to 60			0.924	5
AW18163	Fluoride, Total	mg/L	0.000	0.3	2.00	2.14		0.112	1.94	1.8 to 2.2	101	80 to 120	0.897	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW18159

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Radiological										
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1				Attached	
Metals, Cyanide, Total Phenols										
* Antimony, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	J	0.000787	mg/L
* Arsenic, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	J	0.00172	mg/L
* Barium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01		0.0830	mg/L
* Beryllium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1		0.195	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.1	0.5		5.63	mg/L
* Cadmium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
* Cobalt, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Chromium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	MCW	7/29/2016	EPA 245.1		1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05		0.186	mg/L
* Molybdenum, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01		0.0307	mg/L
* Lead, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	DLJ	7/21/2016	SM 2540C		1		50		704	mg/L
* Chloride, Total	SES	7/20/2016	EPA 300.0		1	0.04	0.25		25.0	mg/L
* Fluoride, Total	SES	7/20/2016	EPA 300.0		1	0.01	0.3	J	0.217	mg/L
* Sulfate, Total	SES	7/21/2016	EPA 300.0		10	3.0	10		237	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW18159

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW18251	Lead, Total	mg/L	0.00000870	0.0022	0.10	0.0999	0.101	0.101	0.085 to 0.115	99.9	70 to 130	0.892	20
AW18251	Antimony, Total	mg/L	0.000131	0.00132	0.10	0.0976	0.0997	0.100	0.085 to 0.115	97.6	70 to 130	2.13	20
AW18251	Barium, Total	mg/L	0.000000928	0.0044	0.10	0.133	0.138	0.102	0.085 to 0.115	98.7	70 to 130	3.54	20
AW18251	Cadmium, Total	mg/L	0.0000000731	0.00044	0.10	0.107	0.109	0.110	0.085 to 0.115	107	70 to 130	1.81	20
AW18270	Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20
AW18162	Mercury, Total by CVAA	mg/L	0.0000971	0.0005	0.004	0.00395	0.00397	0.00391	0.0034 to 0.0046	98.8	70 to 130	0.616	20
AW18251	Beryllium, Total	mg/L	0.0000146	0.00132	0.10	0.104	0.105	0.111	0.085 to 0.115	104	70 to 130	1.28	20
AW18270	Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20
AW18251	Arsenic, Total	mg/L	0.0000103	0.0022	0.10	0.100	0.100	0.105	0.085 to 0.115	100	70 to 130	0.179	20
AW18251	Cobalt, Total	mg/L	0.00000160	0.0044	0.10	0.0951	0.0971	0.0980	0.085 to 0.115	95.1	70 to 130	2.02	20
AW18251	Chromium, Total	mg/L	0.00000629	0.0044	0.10	0.100	0.100	0.103	0.085 to 0.115	100	70 to 130	0.304	20
AW18251	Selenium, Total	mg/L	0.0000541	0.0044	0.10	0.103	0.100	0.106	0.085 to 0.115	103	70 to 130	2.12	20
AW18251	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.116	0.117	0.101	0.085 to 0.115	99.9	70 to 130	1.26	20
AW18251	Thallium, Total	mg/L	0.00000559	0.00044	0.10	0.0987	0.0995	0.0991	0.085 to 0.115	98.7	70 to 130	0.804	20
AW18270	Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW18159

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW17992	Solids, Dissolved	mg/L	4.0	25				536	53	40 to 60			0.924	5
AW18163	Fluoride, Total	mg/L	0.000	0.3	2.00	2.14		0.112	1.94	1.8 to 2.2	101	80 to 120	0.897	20
AW18163	Chloride, Total	mg/L	0.000	0.25	10.00	26.2		17.0	9.89	9 to 11	93.0	80 to 120	0.590	20
AW18163	Sulfate, Total	mg/L	0.000	1.0	20.00	87.1		69.3	19.3	18 to 22	89.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW18160

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0165	mg/L
* Beryllium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.496	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	333	mg/L
* Cadmium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	J 0.000302	mg/L
* Cobalt, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0427	mg/L
* Chromium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	7/29/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.105	mg/L
* Molybdenum, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/21/2016	SM 2540C		1		100	1520	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		20	0.80	5.00	40.8	mg/L
* Fluoride, Total	SES	7/20/2016	EPA 300.0		1	0.01	0.3	J 0.252	mg/L
* Sulfate, Total	SES	7/21/2016	EPA 300.0		20	6.0	20	981	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW18160

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18251 Lead, Total	mg/L	0.00000870	0.0022	0.10	0.0999	0.101	0.101	0.085 to 0.115	99.9	70 to 130	0.892	20	
AW18251 Antimony, Total	mg/L	0.000131	0.00132	0.10	0.0976	0.0997	0.100	0.085 to 0.115	97.6	70 to 130	2.13	20	
AW18251 Barium, Total	mg/L	0.000000928	0.0044	0.10	0.133	0.138	0.102	0.085 to 0.115	98.7	70 to 130	3.54	20	
AW18251 Cadmium, Total	mg/L	0.0000000731	0.00044	0.10	0.107	0.109	0.110	0.085 to 0.115	107	70 to 130	1.81	20	
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18162 Mercury, Total by CVAA	mg/L	0.0000971	0.0005	0.004	0.00395	0.00397	0.00391	0.0034 to 0.0046	98.8	70 to 130	0.616	20	
AW18251 Beryllium, Total	mg/L	0.0000146	0.00132	0.10	0.104	0.105	0.111	0.085 to 0.115	104	70 to 130	1.28	20	
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20	
AW18251 Chromium, Total	mg/L	0.00000629	0.0044	0.10	0.100	0.100	0.103	0.085 to 0.115	100	70 to 130	0.304	20	
AW18251 Selenium, Total	mg/L	0.0000541	0.0044	0.10	0.103	0.100	0.106	0.085 to 0.115	103	70 to 130	2.12	20	
AW18251 Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.116	0.117	0.101	0.085 to 0.115	99.9	70 to 130	1.26	20	
AW18251 Thallium, Total	mg/L	0.00000559	0.00044	0.10	0.0987	0.0995	0.0991	0.085 to 0.115	98.7	70 to 130	0.804	20	
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20	
AW18251 Arsenic, Total	mg/L	0.0000103	0.0022	0.10	0.100	0.100	0.105	0.085 to 0.115	100	70 to 130	0.179	20	
AW18251 Cobalt, Total	mg/L	0.00000160	0.0044	0.10	0.0951	0.0971	0.0980	0.085 to 0.115	95.1	70 to 130	2.02	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW18160

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW17992	Solids, Dissolved	mg/L	4.0	25			536	53	40 to 60			0.924	5
AW18163	Fluoride, Total	mg/L	0.000	0.3	2.00	2.14	0.112	1.94	1.8 to 2.2	101	80 to 120	0.897	20
AW18163	Chloride, Total	mg/L	0.000	0.25	10.00	26.2	17.0	9.89	9 to 11	93.0	80 to 120	0.590	20
AW18163	Sulfate, Total	mg/L	0.000	1.0	20.00	87.1	69.3	19.3	18 to 22	89.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW18161

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0169	mg/L
* Beryllium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.497	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	353	mg/L
* Cadmium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	J 0.000263	mg/L
* Cobalt, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0427	mg/L
* Chromium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	7/29/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.105	mg/L
* Molybdenum, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/21/2016	SM 2540C		1		100	1600	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		20	0.80	5.00	41.3	mg/L
* Fluoride, Total	SES	7/20/2016	EPA 300.0		1	0.01	0.3	J 0.255	mg/L
* Sulfate, Total	SES	7/21/2016	EPA 300.0		20	6.0	20	987	mg/L

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW18161

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18251 Lead, Total	mg/L	0.00000870	0.0022	0.10	0.0999	0.101	0.101	0.085 to 0.115	99.9	70 to 130	0.892	20	
AW18251 Chromium, Total	mg/L	0.00000629	0.0044	0.10	0.100	0.100	0.103	0.085 to 0.115	100	70 to 130	0.304	20	
AW18251 Selenium, Total	mg/L	0.0000541	0.0044	0.10	0.103	0.100	0.106	0.085 to 0.115	103	70 to 130	2.12	20	
AW18162 Mercury, Total by CVAA	mg/L	0.0000971	0.0005	0.004	0.00395	0.00397	0.00391	0.0034 to 0.0046	98.8	70 to 130	0.616	20	
AW18251 Beryllium, Total	mg/L	0.0000146	0.00132	0.10	0.104	0.105	0.111	0.085 to 0.115	104	70 to 130	1.28	20	
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20	
AW18251 Cadmium, Total	mg/L	0.0000000731	0.00044	0.10	0.107	0.109	0.110	0.085 to 0.115	107	70 to 130	1.81	20	
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18251 Antimony, Total	mg/L	0.000131	0.00132	0.10	0.0976	0.0997	0.100	0.085 to 0.115	97.6	70 to 130	2.13	20	
AW18251 Barium, Total	mg/L	0.000000928	0.0044	0.10	0.133	0.138	0.102	0.085 to 0.115	98.7	70 to 130	3.54	20	
AW18251 Arsenic, Total	mg/L	0.0000103	0.0022	0.10	0.100	0.100	0.105	0.085 to 0.115	100	70 to 130	0.179	20	
AW18251 Cobalt, Total	mg/L	0.00000160	0.0044	0.10	0.0951	0.0971	0.0980	0.085 to 0.115	95.1	70 to 130	2.02	20	
AW18251 Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.116	0.117	0.101	0.085 to 0.115	99.9	70 to 130	1.26	20	
AW18251 Thallium, Total	mg/L	0.00000559	0.00044	0.10	0.0987	0.0995	0.0991	0.085 to 0.115	98.7	70 to 130	0.804	20	
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW18161

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW17992	Solids, Dissolved	mg/L	4.0	25			536	53	40 to 60			0.924	5
AW18163	Fluoride, Total	mg/L	0.000	0.3	2.00	2.14	0.112	1.94	1.8 to 2.2	101	80 to 120	0.897	20
AW18163	Chloride, Total	mg/L	0.000	0.25	10.00	26.2	17.0	9.89	9 to 11	93.0	80 to 120	0.590	20
AW18163	Sulfate, Total	mg/L	0.000	1.0	20.00	87.1	69.3	19.3	18 to 22	89.0	80 to 120	0.00	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW18162

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	J 0.00159	mg/L
* Barium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0440	mg/L
* Beryllium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	2.86	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	185	mg/L
* Cadmium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	J 0.000222	mg/L
* Cobalt, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0507	mg/L
* Chromium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	7/29/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.0816	mg/L
* Molybdenum, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.0204	mg/L
* Lead, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/21/2016	SM 2540C		1		100	1080	mg/L
* Chloride, Total	SES	7/20/2016	EPA 300.0		1	0.04	0.25	24.9	mg/L
* Fluoride, Total	SES	7/20/2016	EPA 300.0		1	0.01	0.3	J 0.194	mg/L
* Sulfate, Total	SES	7/21/2016	EPA 300.0		10	3.0	10	683	mg/L

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Laboratory certification ID: E571114

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW18162

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW18251	Lead, Total	mg/L	0.00000870	0.0022	0.10	0.0999	0.101	0.101	0.085 to 0.115	99.9	70 to 130	0.892	20
AW18251	Antimony, Total	mg/L	0.000131	0.00132	0.10	0.0976	0.0997	0.100	0.085 to 0.115	97.6	70 to 130	2.13	20
AW18251	Barium, Total	mg/L	0.000000928	0.0044	0.10	0.133	0.138	0.102	0.085 to 0.115	98.7	70 to 130	3.54	20
AW18251	Arsenic, Total	mg/L	0.0000103	0.0022	0.10	0.100	0.100	0.105	0.085 to 0.115	100	70 to 130	0.179	20
AW18251	Cobalt, Total	mg/L	0.00000160	0.0044	0.10	0.0951	0.0971	0.0980	0.085 to 0.115	95.1	70 to 130	2.02	20
AW18251	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.116	0.117	0.101	0.085 to 0.115	99.9	70 to 130	1.26	20
AW18251	Thallium, Total	mg/L	0.00000559	0.00044	0.10	0.0987	0.0995	0.0991	0.085 to 0.115	98.7	70 to 130	0.804	20
AW18270	Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20
AW18251	Chromium, Total	mg/L	0.00000629	0.0044	0.10	0.100	0.100	0.103	0.085 to 0.115	100	70 to 130	0.304	20
AW18251	Selenium, Total	mg/L	0.0000541	0.0044	0.10	0.103	0.100	0.106	0.085 to 0.115	103	70 to 130	2.12	20
AW18162	Mercury, Total by CVAA	mg/L	0.0000971	0.0005	0.004	0.00395	0.00397	0.00391	0.0034 to 0.0046	98.8	70 to 130	0.616	20
AW18251	Beryllium, Total	mg/L	0.0000146	0.00132	0.10	0.104	0.105	0.111	0.085 to 0.115	104	70 to 130	1.28	20
AW18270	Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20
AW18251	Cadmium, Total	mg/L	0.0000000731	0.00044	0.10	0.107	0.109	0.110	0.085 to 0.115	107	70 to 130	1.81	20
AW18270	Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW18162

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW17992	Solids, Dissolved	mg/L	4.0	25				536	53	40 to 60			0.924	5
AW18163	Fluoride, Total	mg/L	0.000	0.3	2.00	2.14		0.112	1.94	1.8 to 2.2	101	80 to 120	0.897	20
AW18163	Chloride, Total	mg/L	0.000	0.25	10.00	26.2		17.0	9.89	9 to 11	93.0	80 to 120	0.590	20
AW18163	Sulfate, Total	mg/L	0.000	1.0	20.00	87.1		69.3	19.3	18 to 22	89.0	80 to 120	0.00	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW18163

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	0.125	mg/L
* Beryllium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.150	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.1	0.5	37.0	mg/L
* Cadmium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	J 0.0199	mg/L
* Molybdenum, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	7/21/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	7/21/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/21/2016	SM 2540C		1		25	255	mg/L
* Chloride, Total	SES	7/20/2016	EPA 300.0		1	0.04	0.25	16.9	mg/L
* Fluoride, Total	SES	7/20/2016	EPA 300.0		1	0.01	0.3	J 0.111	mg/L
* Sulfate, Total	SES	7/20/2016	EPA 300.0		1	0.3	1	69.3	mg/L

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Corrected Copy



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 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW18163

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18251 Lead, Total	mg/L	0.00000870	0.0022	0.10	0.0999	0.101	0.101	0.085 to 0.115	99.9	70 to 130	0.892	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18251 Chromium, Total	mg/L	0.00000629	0.0044	0.10	0.100	0.100	0.103	0.085 to 0.115	100	70 to 130	0.304	20	
AW18251 Selenium, Total	mg/L	0.0000541	0.0044	0.10	0.103	0.100	0.106	0.085 to 0.115	103	70 to 130	2.12	20	
AW18251 Beryllium, Total	mg/L	0.0000146	0.00132	0.10	0.104	0.105	0.111	0.085 to 0.115	104	70 to 130	1.28	20	
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20	
AW18251 Cadmium, Total	mg/L	0.0000000731	0.00044	0.10	0.107	0.109	0.110	0.085 to 0.115	107	70 to 130	1.81	20	
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18251 Antimony, Total	mg/L	0.000131	0.00132	0.10	0.0976	0.0997	0.100	0.085 to 0.115	97.6	70 to 130	2.13	20	
AW18251 Barium, Total	mg/L	0.000000928	0.0044	0.10	0.133	0.138	0.102	0.085 to 0.115	98.7	70 to 130	3.54	20	
AW18251 Arsenic, Total	mg/L	0.0000103	0.0022	0.10	0.100	0.100	0.105	0.085 to 0.115	100	70 to 130	0.179	20	
AW18251 Cobalt, Total	mg/L	0.00000160	0.0044	0.10	0.0951	0.0971	0.0980	0.085 to 0.115	95.1	70 to 130	2.02	20	
AW18251 Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.116	0.117	0.101	0.085 to 0.115	99.9	70 to 130	1.26	20	
AW18251 Thallium, Total	mg/L	0.00000559	0.00044	0.10	0.0987	0.0995	0.0991	0.085 to 0.115	98.7	70 to 130	0.804	20	
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 19-Jul-16
 Customer ID:
 Delivery Date: 20-Jul-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW18163

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW18163	Chloride, Total	mg/L	0.000	0.25	10.00	26.2	17.0	9.89	9 to 11	93.0	80 to 120	0.590	20
AW18163	Sulfate, Total	mg/L	0.000	1.0	20.00	87.1	69.3	19.3	18 to 22	89.0	80 to 120	0.00	20
AW17992	Solids, Dissolved	mg/L	4.0	25			536	53	40 to 60			0.924	5
AW18163	Fluoride, Total	mg/L	0.000	0.3	2.00	2.14	0.112	1.94	1.8 to 2.2	101	80 to 120	0.897	20

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CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW18267

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0847	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.115	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.1	0.5	30.5	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	J 0.0206	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		25	207	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	6.47	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.182	mg/L
* Sulfate, Total	SES	7/21/2016	EPA 300.0		1	0.3	1	39.9	mg/L

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To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW18267

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec Limit
			Limit	Spike				Limit	Rec	Limit	Prec	
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20
AW18390 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	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

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To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW18267

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18267	Solids, Dissolved	mg/L	1.0	25			211	48	40 to 60			0.957	5

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW18268

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00239	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0827	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	J 0.0601	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	49.9	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	J 0.0382	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		25	307	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	10.4	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.149	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		10	3.0	10	58.9	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17
 Difference between the last two consecutive weights for TDS resulted in 1.1 mg, which is above the required 0.5 mg limit.

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW18268

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20	
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18390 Cobalt, Total	mg/L	0.00000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20	
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW18268

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18267	Solids, Dissolved	mg/L	1.0	25			211	48	40 to 60			0.957	5

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17
 Difference between the last two consecutive weights for TDS resulted in 1.1 mg, which is above the required 0.5 mg limit.

CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW18269

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00346	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0210	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	J 0.0816	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.1	0.5	15.5	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0214	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.0825	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		25	319	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	8.49	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.106	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		10	3.0	10	125	mg/L

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Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW18269

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20	
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20	
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18390 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW18269

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18267	Solids, Dissolved	mg/L	1.0	25			211	48	40 to 60			0.957	5
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW18270

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	J 0.000690	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00169	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0243	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	2.36	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	178	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.229	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0267	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		100	1620	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	8.05	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	0.701	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		20	6.0	20	895	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium is out of range.
 The spike amount is less than 30% the sample amount, therefore will not be qualified. SGC 11/29/16
 CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW18270

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18270 Lithium, Total	mg/L	0.0000492	0.022	0.20	0.457	0.464	0.198	0.17 to 0.23	114	70 to 130	1.52	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	
AW18270 Boron, Total	mg/L	0.00549	0.044	1.00	3.36	3.37	0.961	0.85 to 1.15	100	70 to 130	0.297	20	
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18270 Calcium, Total	mg/L	-0.00875	0.22	5.00	178	174	5.08	4.25 to 5.75	0.00	70 to 130	2.27	20	
AW18390 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	

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Laboratory certification ID: E571114

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW18270

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18267	Solids, Dissolved	mg/L	1.0	25			211	48	40 to 60			0.957	5
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium is out of range.
 The spike amount is less than 30% the sample amount, therefore will not be qualified. SGC 11/29/16
 CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18271

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	7/22/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	7/22/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		1	0.3	1	J 0.379	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17
 Difference between the last two consecutive weights for TDS resulted in 1.2 mg, which is above the required 0.5 mg limit.

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18271

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18390 Cobalt, Total	mg/L	0.00000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20	
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20	
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17
 Difference between the last two consecutive weights for TDS resulted in 1.2 mg, which is above the required 0.5 mg limit.

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18271

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18267	Solids, Dissolved	mg/L	1.0	25			211	48	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17
 Difference between the last two consecutive weights for TDS resulted in 1.2 mg, which is above the required 0.5 mg limit.

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW18272

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00202	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0144	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.644	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	60.6	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0163	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.0779	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		50	792	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	8.70	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.155	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		10	3.0	10	475	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW18272

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18390 Cobalt, Total	mg/L	0.00000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20	
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW18272

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18267	Solids, Dissolved	mg/L	1.0	25			211	48	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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**

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW18387

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0201	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.295	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	91.9	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	J 0.00995	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.188	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		100	1250	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	9.28	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.139	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		20	6.0	20	793	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW18387

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20	
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20	
AW18390 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 20-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW18387

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18390	Solids, Dissolved	mg/L	1.0	25			772	48	40 to 60			1.05	5

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW18388

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00237	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0415	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.690	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	88.2	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.148	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0283	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		50	640	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	20.6	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.203	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		10	3.0	10	277	mg/L

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17
 Difference between the last two consecutive weights for TDS resulted in 1.1 mg, which is above the required 0.5 mg limit.

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW18388

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec Limit
			Limit	Spike				Limit	Rec	Limit	Prec	
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20
AW18390 Cobalt, Total	mg/L	0.00000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW18388

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18390	Solids, Dissolved	mg/L	1.0	25			772	48	40 to 60			1.05	5

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7S Dup

Laboratory ID Number: AW18389

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00242	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0421	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.693	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	85.2	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.150	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0287	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		50	636	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	20.6	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.201	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		10	3.0	10	277	mg/L

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 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7S Dup

Laboratory ID Number: AW18389

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18390 Cobalt, Total	mg/L	0.00000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20	
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20	
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20	
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20	
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20	
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20	
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20	
AW18389 Mercury, Total by CVAA	mg/L	0.0000420	0.0005	0.004	0.00369	0.00369	0.00378	0.0034 to 0.0046	92.2	70 to 130	0.152	20	
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20	
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20	
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20	
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20	
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20	
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20	
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20	

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7S Dup

Laboratory ID Number: AW18389

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18390	Solids, Dissolved	mg/L	1.0	25			772	48	40 to 60			1.05	5

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW18390

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00186	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0343	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.744	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	115	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.124	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0155	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/25/2016	SM 2540C		1		50	756	mg/L
* Chloride, Total	SES	7/21/2016	EPA 300.0		1	0.04	0.25	21.8	mg/L
* Fluoride, Total	SES	7/21/2016	EPA 300.0		1	0.01	0.3	J 0.125	mg/L
* Sulfate, Total	SES	7/22/2016	EPA 300.0		10	3.0	10	367	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW18390

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec
			Limit	Spike				Limit	Rec	Limit	Prec	Limit
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20
AW18390 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.130	0.130	0.0972	0.085 to 0.115	95.7	70 to 130	0.518	20
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20
AW18390 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.0951	0.0951	0.0965	0.085 to 0.115	95.1	70 to 130	0.0165	20
AW18390 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.105	0.105	0.102	0.085 to 0.115	105	70 to 130	0.223	20
AW18390 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.118	0.119	0.104	0.085 to 0.115	102	70 to 130	0.306	20
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20
AW18390 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0978	0.0988	0.101	0.085 to 0.115	97.8	70 to 130	0.973	20
AW18390 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0977	0.0988	0.104	0.085 to 0.115	97.7	70 to 130	1.14	20
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20
AW18390 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0945	0.0951	0.0989	0.085 to 0.115	94.5	70 to 130	0.654	20
AW18390 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0916	0.0921	0.0951	0.085 to 0.115	89.7	70 to 130	0.573	20
AW18390 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.104	0.103	0.100	0.085 to 0.115	104	70 to 130	0.426	20
AW18390 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.100	0.100	0.108	0.085 to 0.115	100	70 to 130	0.0415	20
AW18390 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.105	0.101	0.085 to 0.115	104	70 to 130	0.953	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 21-Jul-16
 Customer ID:
 Delivery Date: 21-Jul-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW18390

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18271	Chloride, Total	mg/L	0.000	0.25	10.00	9.97	0.000	9.96	9 to 11	99.7	80 to 120	0	20
AW18271	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.000	2.03	1.8 to 2.2	102	80 to 120	0	20
AW18271	Sulfate, Total	mg/L	0.000	1.0	20.00	20.0	0.359	20.0	18 to 22	98.1	80 to 120	5.42	20
AW18390	Solids, Dissolved	mg/L	1.0	25			772	48	40 to 60			1.05	5

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW18704

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00272	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0185	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	3.36	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	132	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	J 0.00273	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0112	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	0.189	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.115	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/27/2016	SM 2540C		1		100	1440	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	6.41	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	0.439	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		20	6.0	20	787	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW18704

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit	
			Limit	Spike				Limit	Rec	Limit	Prec			
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115		102	70 to 130		0.704	20
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115		104	70 to 130		0.125	20
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046		95.5	70 to 130		0.343	20
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15		96.4	70 to 130		0.00	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115		93.6	70 to 130		0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115		96.0	70 to 130		2.34	20
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75		70.0	70 to 130		1.77	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115		103	70 to 130		0.737	20
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23		108	70 to 130		2.00	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115		89.1	70 to 130		0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115		96.0	70 to 130		1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115		98.5	70 to 130		1.38	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115		95.4	70 to 130		0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115		93.2	70 to 130		0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115		104	70 to 130		0.277	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW18704

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18706	Solids, Dissolved	mg/L	2.0	25				700	50	40 to 60			0.430	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040		636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1		8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27		0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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Expiration: June 30, 2017

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CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW18705

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0233	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	1.56	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	58.5	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	J 0.0338	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0453	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/27/2016	SM 2540C		1		50	686	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	4.64	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	0.471	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		10	3.0	10	363	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW18705

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit	
			Limit	Spike				Limit	Rec	Limit	Prec			
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115		102	70 to 130		0.704	20
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046		95.5	70 to 130		0.343	20
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115		104	70 to 130		0.125	20
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75		70.0	70 to 130		1.77	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115		103	70 to 130		0.737	20
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15		96.4	70 to 130		0.00	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115		93.6	70 to 130		0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115		96.0	70 to 130		2.34	20
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23		108	70 to 130		2.00	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115		89.1	70 to 130		0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115		96.0	70 to 130		1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115		98.5	70 to 130		1.38	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115		95.4	70 to 130		0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115		93.2	70 to 130		0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115		104	70 to 130		0.277	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW18705

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18706	Solids, Dissolved	mg/L	2.0	25				700	50	40 to 60			0.430	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040		636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1		8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27		0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8S Dup

Laboratory ID Number: AW18706

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320	1				Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8	5.075	0.0006	0.003	U	Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8	5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8	5.075	0.002	0.01		0.0234	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8	5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7	1.015	0.02	0.1		1.55	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7	10.15	1.0	5.0		59.1	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8	5.075	0.0002	0.001	U	Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8	5.075	0.002	0.01	U	Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8	5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1	1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7	1.015	0.01	0.05	J	0.0336	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8	5.075	0.002	0.01		0.0452	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8	5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8	5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8	5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/27/2016	SM 2540C	1			50	694	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0	1	0.04	0.25		4.63	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0	1	0.01	0.3		0.470	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0	10	3.0	10		363	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8S Dup

Laboratory ID Number: AW18706

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046		95.5	70 to 130	0.343	20
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115		102	70 to 130	0.704	20
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115		104	70 to 130	0.125	20
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75		70.0	70 to 130	1.77	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115		103	70 to 130	0.737	20
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15		96.4	70 to 130	0.00	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115		93.6	70 to 130	0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115		96.0	70 to 130	2.34	20
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23		108	70 to 130	2.00	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115		89.1	70 to 130	0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115		96.0	70 to 130	1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115		98.5	70 to 130	1.38	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115		95.4	70 to 130	0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115		93.2	70 to 130	0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115		104	70 to 130	0.277	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8S Dup

Laboratory ID Number: AW18706

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18706	Solids, Dissolved	mg/L	2.0	25			700	50	40 to 60			0.430	5
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW18707

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00116	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0547	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/11/2016	EPA 200.7		1.015	0.02	0.1	0.916	mg/L
* Calcium, Total	HRG	8/11/2016	EPA 200.7		10.15	1.0	5.0	46.8	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	J 0.00510	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/11/2016	EPA 200.7		1.015	0.01	0.05	J 0.0373	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0173	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/29/2016	SM 2540C		1		50	592	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	6.35	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	J 0.260	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		10	3.0	10	321	mg/L

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Expiration: June 30, 2017

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW18707

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115	104	70 to 130	0.125	20	
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20	
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115	102	70 to 130	0.704	20	
AW18707 Calcium, Total	mg/L	-0.00768	0.22	5.00	50.3	51.2	4.86	4.25 to 5.75	70.0	70 to 130	1.77	20	
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115	103	70 to 130	0.737	20	
AW18707 Lithium, Total	mg/L	0.000162	0.022	0.20	0.253	0.248	0.195	0.17 to 0.23	108	70 to 130	2.00	20	
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115	89.1	70 to 130	0.331	20	
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115	96.0	70 to 130	1.42	20	
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115	98.5	70 to 130	1.38	20	
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115	95.4	70 to 130	0.250	20	
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115	93.2	70 to 130	0.500	20	
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.277	20	
AW18707 Boron, Total	mg/L	0.000657	0.044	1.00	1.88	1.88	0.949	0.85 to 1.15	96.4	70 to 130	0.00	20	
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115	93.6	70 to 130	0.854	20	
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115	96.0	70 to 130	2.34	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW18707

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AW18707	Solids, Dissolved	mg/L	-1.0	25			562	51	40 to 60			2.60	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW18708

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00460	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0656	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	J 0.0978	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		10.15	1.0	5.0	153	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	J 0.00711	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	0.187	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0108	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/29/2016	SM 2540C		1		100	1060	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	14.1	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	J 0.134	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		20	6.0	20	585	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW18708

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec Limit
			Limit	Spike				Limit	Rec	Limit	Prec	
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115	102	70 to 130	0.704	20
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115	104	70 to 130	0.125	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115	93.6	70 to 130	0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115	96.0	70 to 130	2.34	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115	103	70 to 130	0.737	20
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115	95.4	70 to 130	0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115	93.2	70 to 130	0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.277	20
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115	89.1	70 to 130	0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115	96.0	70 to 130	1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115	98.5	70 to 130	1.38	20
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW18708

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18707	Solids, Dissolved	mg/L	-1.0	25			562	51	40 to 60			2.60	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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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**

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW18709

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00267	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0266	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	J 0.0922	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		10.15	1.0	5.0	209	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.103	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	0.163	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/29/2016	SM 2540C		1		100	2040	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	5.13	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	J 0.094	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		30	9.0	30	1340	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW18709

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec Limit
			Limit	Spike				Limit	Rec	Limit	Prec	
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115	104	70 to 130	0.125	20
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115	102	70 to 130	0.704	20
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115	89.1	70 to 130	0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115	96.0	70 to 130	1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115	98.5	70 to 130	1.38	20
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115	93.6	70 to 130	0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115	96.0	70 to 130	2.34	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115	95.4	70 to 130	0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115	93.2	70 to 130	0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.277	20
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115	103	70 to 130	0.737	20
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW18709

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW18707	Solids, Dissolved	mg/L	-1.0	25			562	51	40 to 60			2.60	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18710

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/29/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		1	0.3	1	U 0.417	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18710

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec Limit
			Limit	Spike				Limit	Rec	Limit	Prec	
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115	102	70 to 130	0.704	20
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115	104	70 to 130	0.125	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115	93.6	70 to 130	0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115	96.0	70 to 130	2.34	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115	103	70 to 130	0.737	20
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115	89.1	70 to 130	0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115	96.0	70 to 130	1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115	98.5	70 to 130	1.38	20
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115	95.4	70 to 130	0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115	93.2	70 to 130	0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.277	20
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18710

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW18707	Solids, Dissolved	mg/L	-1.0	25			562	51	40 to 60			2.60	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW18711

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/29/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		1	0.3	1	U 0.384	mg/L

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Laboratory certification ID: E571114

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW18711

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115	102	70 to 130	0.704	20	
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115	104	70 to 130	0.125	20	
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20	
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115	103	70 to 130	0.737	20	
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20	
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115	93.6	70 to 130	0.854	20	
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115	96.0	70 to 130	2.34	20	
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115	95.4	70 to 130	0.250	20	
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115	93.2	70 to 130	0.500	20	
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.277	20	
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20	
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115	89.1	70 to 130	0.331	20	
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115	96.0	70 to 130	1.42	20	
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115	98.5	70 to 130	1.38	20	
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW18711

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18707	Solids, Dissolved	mg/L	-1.0	25			562	51	40 to 60			2.60	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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Expiration: June 30, 2017

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CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW18712

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0520	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	J 0.0282	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		10.15	1.0	5.0	164	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/3/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	0.119	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	7/29/2016	SM 2540C		1		100	456	mg/L
* Chloride, Total	SES	7/26/2016	EPA 300.0		1	0.04	0.25	8.30	mg/L
* Fluoride, Total	SES	7/26/2016	EPA 300.0		1	0.01	0.3	J 0.155	mg/L
* Sulfate, Total	SES	7/26/2016	EPA 300.0		20	6.0	20	637	mg/L

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW18712

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115	102	70 to 130	0.704	20	
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115	104	70 to 130	0.125	20	
AW18712 Mercury, Total by CVAA	mg/L	0.0000412	0.0005	0.004	0.00382	0.00381	0.00381	0.0034 to 0.0046	95.5	70 to 130	0.343	20	
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115	93.6	70 to 130	0.854	20	
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115	96.0	70 to 130	2.34	20	
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115	89.1	70 to 130	0.331	20	
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115	96.0	70 to 130	1.42	20	
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115	98.5	70 to 130	1.38	20	
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20	
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115	95.4	70 to 130	0.250	20	
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115	93.2	70 to 130	0.500	20	
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.277	20	
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20	
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115	103	70 to 130	0.737	20	
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20	

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Expiration: June 30, 2017

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 25-Jul-16
 Customer ID:
 Delivery Date: 26-Jul-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW18712

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18707	Solids, Dissolved	mg/L	-1.0	25			562	51	40 to 60			2.60	5
AW18712	Sulfate, Total	mg/L	0.347	1.0	400	1040	636	19.9	18 to 22	101	80 to 120	0.157	20
AW18712	Chloride, Total	mg/L	0.000	0.25	10.00	18.1	8.32	9.99	9 to 11	98.0	80 to 120	0.241	20
AW18712	Fluoride, Total	mg/L	0.000	0.3	2.00	2.27	0.158	2.00	1.8 to 2.2	106	80 to 120	1.92	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW18879

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0266	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	0.835	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		10.15	1.0	5.0	135	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0648	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	0.0874	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	J 0.00707	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	8/1/2016	SM 2540C		1		50	868	mg/L
* Chloride, Total	SES	7/27/2016	EPA 300.0		10	0.40	2.50	24.8	mg/L
* Fluoride, Total	SES	7/27/2016	EPA 300.0		1	0.01	0.3	J 0.108	mg/L
* Sulfate, Total	SES	7/27/2016	EPA 300.0		10	3.0	10	532	mg/L

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW18879

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit	
			Limit	Spike				Limit	Rec	Limit	Prec			
AW18879 Molybdenum, Total	mg/L	0.0000115	0.0044	0.10	0.109	0.110	0.104	0.085 to 0.115		102	70 to 130		0.704	20
AW18879 Thallium, Total	mg/L	0.00000213	0.00044	0.10	0.104	0.104	0.101	0.085 to 0.115		104	70 to 130		0.125	20
AW18879 Antimony, Total	mg/L	0.0000494	0.00132	0.10	0.0936	0.0944	0.0989	0.085 to 0.115		93.6	70 to 130		0.854	20
AW18879 Beryllium, Total	mg/L	0.00000337	0.00132	0.10	0.0960	0.0983	0.101	0.085 to 0.115		96.0	70 to 130		2.34	20
AW18879 Arsenic, Total	mg/L	0.00000735	0.0022	0.10	0.0891	0.0894	0.0951	0.085 to 0.115		89.1	70 to 130		0.331	20
AW18879 Cadmium, Total	mg/L	0.00000120	0.00044	0.10	0.0960	0.0974	0.104	0.085 to 0.115		96.0	70 to 130		1.42	20
AW18879 Selenium, Total	mg/L	0.0000597	0.0044	0.10	0.0985	0.0999	0.108	0.085 to 0.115		98.5	70 to 130		1.38	20
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75		412	70 to 130		0.949	20
AW19571 Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00392	0.00388	0.00382	0.0034 to 0.0046		98.0	70 to 130		1.19	20
AW18879 Barium, Total	mg/L	0.0000189	0.0044	0.10	0.122	0.121	0.0972	0.085 to 0.115		95.4	70 to 130		0.250	20
AW18879 Cobalt, Total	mg/L	0.000000362	0.0044	0.10	0.158	0.158	0.0965	0.085 to 0.115		93.2	70 to 130		0.500	20
AW18879 Lead, Total	mg/L	0.00000764	0.0022	0.10	0.104	0.104	0.102	0.085 to 0.115		104	70 to 130		0.277	20
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23		114	70 to 130		0.654	20
AW18879 Chromium, Total	mg/L	0.00000541	0.0044	0.10	0.103	0.103	0.100	0.085 to 0.115		103	70 to 130		0.737	20
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15		97.6	70 to 130		0.707	20

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW18879

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW18882	Chloride, Total	mg/L	0.000	0.25	100	129	30.2	9.97	9 to 11	98.5	80 to 120	0.988	20
AW18882	Fluoride, Total	mg/L	0.000	0.3	2.00	3.10	0.955	2.00	1.8 to 2.2	102	80 to 120	9.48	20
AW18879	Solids, Dissolved	mg/L	5.0	25			878	54	40 to 60			0.573	5
AW18882	Sulfate, Total	mg/L	0.351	1.0	200	682	490	19.8	18 to 22	97.5	80 to 120	0.614	20

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18880

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	8/1/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	7/27/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	7/27/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	7/27/2016	EPA 300.0		1	0.3	1	U 0.368	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected. The result for TDS has been correctly changed to Not Detected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18880

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18882 Cobalt, Total	mg/L	0.00000189	0.0044	0.10	0.0971	0.0974	0.0956	0.085 to 0.115	97.1	70 to 130	0.254	20	
AW18882 Beryllium, Total	mg/L	0.00000539	0.00132	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.965	20	
AW18882 Chromium, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.105	0.100	0.085 to 0.115	104	70 to 130	0.866	20	
AW18882 Antimony, Total	mg/L	0.0000412	0.00132	0.10	0.0958	0.0958	0.0985	0.085 to 0.115	95.8	70 to 130	0.0048420	20	
AW18882 Cadmium, Total	mg/L	-0.000000263	0.00044	0.10	0.0980	0.0975	0.104	0.085 to 0.115	98.0	70 to 130	0.472	20	
AW18882 Lead, Total	mg/L	0.0000215	0.0022	0.10	0.106	0.106	0.101	0.085 to 0.115	106	70 to 130	0.496	20	
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20	
AW18882 Barium, Total	mg/L	0.0000152	0.0044	0.10	0.207	0.208	0.0975	0.085 to 0.115	97.0	70 to 130	0.193	20	
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20	
AW18882 Arsenic, Total	mg/L	0.00000959	0.0022	0.10	0.0945	0.0954	0.0947	0.085 to 0.115	91.4	70 to 130	1.04	20	
AW18882 Molybdenum, Total	mg/L	0.0000119	0.0044	0.10	0.116	0.117	0.103	0.085 to 0.115	104	70 to 130	0.952	20	
AW18882 Thallium, Total	mg/L	0.00000251	0.00044	0.10	0.105	0.105	0.0999	0.085 to 0.115	105	70 to 130	0.632	20	
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20	
AW18882 Selenium, Total	mg/L	0.0000533	0.0044	0.10	0.0857	0.0855	0.107	0.085 to 0.115	85.7	70 to 130	0.257	20	
AW19571 Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00392	0.00388	0.00382	0.0034 to 0.0046	98.0	70 to 130	1.19	20	

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Expiration: June 30, 2017

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW18880

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AW18879	Solids, Dissolved	mg/L	5.0	25			878	54	40 to 60			0.573	5
AW18882	Fluoride, Total	mg/L	0.000	0.3	2.00	3.10	0.955	2.00	1.8 to 2.2	102	80 to 120	9.48	20
AW18882	Chloride, Total	mg/L	0.000	0.25	100	129	30.2	9.97	9 to 11	98.5	80 to 120	0.988	20
AW18882	Sulfate, Total	mg/L	0.351	1.0	200	682	490	19.8	18 to 22	97.5	80 to 120	0.614	20

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW18881

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	0.0112	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0158	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	0.873	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		10.15	1.0	5.0	315	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	0.249	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0718	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	8/1/2016	SM 2540C		1		100	1630	mg/L
* Chloride, Total	SES	7/27/2016	EPA 300.0		20	0.80	5.00	39.1	mg/L
* Fluoride, Total	SES	7/27/2016	EPA 300.0		1	0.01	0.3	J 0.296	mg/L
* Sulfate, Total	SES	7/27/2016	EPA 300.0		20	6.0	20	1040	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW18881

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18882 Chromium, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.105	0.100	0.085 to 0.115	104	70 to 130	0.866	20	
AW18882 Cobalt, Total	mg/L	0.00000189	0.0044	0.10	0.0971	0.0974	0.0956	0.085 to 0.115	97.1	70 to 130	0.254	20	
AW18882 Antimony, Total	mg/L	0.0000412	0.00132	0.10	0.0958	0.0958	0.0985	0.085 to 0.115	95.8	70 to 130	0.0048420	20	
AW18882 Beryllium, Total	mg/L	0.00000539	0.00132	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.965	20	
AW18882 Cadmium, Total	mg/L	-0.000000263	0.00044	0.10	0.0980	0.0975	0.104	0.085 to 0.115	98.0	70 to 130	0.472	20	
AW18882 Lead, Total	mg/L	0.0000215	0.0022	0.10	0.106	0.106	0.101	0.085 to 0.115	106	70 to 130	0.496	20	
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20	
AW18882 Arsenic, Total	mg/L	0.00000959	0.0022	0.10	0.0945	0.0954	0.0947	0.085 to 0.115	91.4	70 to 130	1.04	20	
AW18882 Molybdenum, Total	mg/L	0.0000119	0.0044	0.10	0.116	0.117	0.103	0.085 to 0.115	104	70 to 130	0.952	20	
AW18882 Thallium, Total	mg/L	0.00000251	0.00044	0.10	0.105	0.105	0.0999	0.085 to 0.115	105	70 to 130	0.632	20	
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20	
AW18882 Selenium, Total	mg/L	0.0000533	0.0044	0.10	0.0857	0.0855	0.107	0.085 to 0.115	85.7	70 to 130	0.257	20	
AW19571 Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00392	0.00388	0.00382	0.0034 to 0.0046	98.0	70 to 130	1.19	20	
AW18882 Barium, Total	mg/L	0.0000152	0.0044	0.10	0.207	0.208	0.0975	0.085 to 0.115	97.0	70 to 130	0.193	20	
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW18881

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		
AW18882	Chloride, Total	mg/L	0.000	0.25	100	129	30.2	9.97	9 to 11	98.5	80 to 120	0.988	20
AW18882	Fluoride, Total	mg/L	0.000	0.3	2.00	3.10	0.955	2.00	1.8 to 2.2	102	80 to 120	9.48	20
AW18882	Sulfate, Total	mg/L	0.351	1.0	200	682	490	19.8	18 to 22	97.5	80 to 120	0.614	20
AW18879	Solids, Dissolved	mg/L	5.0	25			878	54	40 to 60			0.573	5

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW18882

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	11/29/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Arsenic, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	J 0.00314	mg/L
* Barium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.110	mg/L
* Beryllium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	HRG	8/22/2016	EPA 200.7		1.015	0.02	0.1	0.434	mg/L
* Calcium, Total	HRG	8/22/2016	EPA 200.7		10.15	1.0	5.0	52.8	mg/L
* Cadmium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
* Cobalt, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Chromium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	8/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	8/22/2016	EPA 200.7		1.015	0.01	0.05	0.228	mg/L
* Molybdenum, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	0.0122	mg/L
* Lead, Total	RDA	8/4/2016	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	RDA	8/4/2016	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	8/1/2016	SM 2540C		1		100	1040	mg/L
* Chloride, Total	SES	7/27/2016	EPA 300.0		10	0.40	2.50	30.5	mg/L
* Fluoride, Total	SES	7/27/2016	EPA 300.0		1	0.01	0.3	1.05	mg/L
* Sulfate, Total	SES	7/27/2016	EPA 300.0		10	3.0	10	487	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium is out of range.
 The amount spiked is less than 30% of the sample amount, therefore will not be qualified. SGC 11/29/16
 CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW18882

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW18882 Beryllium, Total	mg/L	0.00000539	0.00132	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.965	20	
AW18882 Cobalt, Total	mg/L	0.00000189	0.0044	0.10	0.0971	0.0974	0.0956	0.085 to 0.115	97.1	70 to 130	0.254	20	
AW18882 Chromium, Total	mg/L	0.00000562	0.0044	0.10	0.104	0.105	0.100	0.085 to 0.115	104	70 to 130	0.866	20	
AW18882 Antimony, Total	mg/L	0.0000412	0.00132	0.10	0.0958	0.0958	0.0985	0.085 to 0.115	95.8	70 to 130	0.0048420	20	
AW18882 Calcium, Total	mg/L	0.0109	0.22	5.00	73.4	74.1	5.09	4.25 to 5.75	412	70 to 130	0.949	20	
AW18882 Selenium, Total	mg/L	0.0000533	0.0044	0.10	0.0857	0.0855	0.107	0.085 to 0.115	85.7	70 to 130	0.257	20	
AW19571 Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00392	0.00388	0.00382	0.0034 to 0.0046	98.0	70 to 130	1.19	20	
AW18882 Barium, Total	mg/L	0.0000152	0.0044	0.10	0.207	0.208	0.0975	0.085 to 0.115	97.0	70 to 130	0.193	20	
AW18882 Boron, Total	mg/L	0.00579	0.044	1.00	1.41	1.42	1.00	0.85 to 1.15	97.6	70 to 130	0.707	20	
AW18882 Arsenic, Total	mg/L	0.00000959	0.0022	0.10	0.0945	0.0954	0.0947	0.085 to 0.115	91.4	70 to 130	1.04	20	
AW18882 Molybdenum, Total	mg/L	0.0000119	0.0044	0.10	0.116	0.117	0.103	0.085 to 0.115	104	70 to 130	0.952	20	
AW18882 Thallium, Total	mg/L	0.00000251	0.00044	0.10	0.105	0.105	0.0999	0.085 to 0.115	105	70 to 130	0.632	20	
AW18882 Cadmium, Total	mg/L	-0.000000263	0.00044	0.10	0.0980	0.0975	0.104	0.085 to 0.115	98.0	70 to 130	0.472	20	
AW18882 Lead, Total	mg/L	0.0000215	0.0022	0.10	0.106	0.106	0.101	0.085 to 0.115	106	70 to 130	0.496	20	
AW18882 Lithium, Total	mg/L	0.000231	0.022	0.20	0.457	0.460	0.206	0.17 to 0.23	114	70 to 130	0.654	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium is out of range.
 The amount spiked is less than 30% of the sample amount,
 therefore will not be qualified. SGC 11/29/16
 CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as
 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Jul-16
 Customer ID:
 Delivery Date: 27-Jul-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW18882

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		Prec
AW18882	Fluoride, Total	mg/L	0.000	0.3	2.00	3.10	0.955	2.00	1.8 to 2.2	102	80 to 120	9.48	20
AW18879	Solids, Dissolved	mg/L	5.0	25			878	54	40 to 60			0.573	5
AW18882	Chloride, Total	mg/L	0.000	0.25	100	129	30.2	9.97	9 to 11	98.5	80 to 120	0.988	20
AW18882	Sulfate, Total	mg/L	0.351	1.0	200	682	490	19.8	18 to 22	97.5	80 to 120	0.614	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, 2017

Comments: Recovery for Calcium is out of range.
 The amount spiked is less than 30% of the sample amount, therefore will not be qualified. SGC 11/29/16
 CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Jason Rouss"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle"/>		
Comments	<input type="text"/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-16	07/19/2016	11:07	3	Groundwater		AW18162
MW-15	07/19/2016	12:10	3	Groundwater		AW18163

Relinquished By	Received By	Date/Time
 Benjamin Rothschadl <small>Digitally signed by Benjamin Rothschadl DN: cn=Benjamin Rothschadl, o=Alabama Power, ou, email=X2BTROTTH@southernco.com, c=US Date: 2016.07.20 08:44:32 -05'00'</small>	 Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkornegay@southernco.com, c=US Date: 2016.07.20 08:46:36 -05'00'</small>	07/19/2016 13:33 07/20/2016 08:00

SmarTroll ID	<input type="text" value="4696-23444-3-3"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="4677-23342-4-1"/>	
Cooler Temp	<input type="text" value="1.4 degrees C"/>	
Thermometer ID	<input type="text" value="4303-21829-1-1"/>	
pH Strip ID	<input type="text" value="4611-23045-10-1"/>	



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

Field Complete
 Lab Complete

Lab ETA 07/20/2016 07:40

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Nick Pitts	Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	07/19/2016	13:40	3	Groundwater		AW18158
MW-3S	07/19/2016	15:15	3	Groundwater		AW18159
MW-4	07/19/2016	16:15	3	Groundwater		AW18160
MW-4 Dup	07/19/2016	16:15	3	Sample Duplicate		AW18161

Relinquished By	Received By	Date/Time
	Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkorneg@southernco.com, c=US Date: 2016.07.20 08:40:28 -0500</small>	07/20/2016 07:44

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
		1.4 degrees C
		Thermometer ID
		4303-21829-1-1
		pH Strip ID
		4611-23045-10-1



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

Field Complete
 Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond

Analysis Requested: Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
 Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-14	07/20/2016	09:50	3	Groundwater		AW18267
MW-13D	07/20/2016	11:20	3	Groundwater		AW18268
MW-13S	07/20/2016	12:53	3	Groundwater		AW18269
MW-12	07/20/2016	14:23	3	Groundwater		AW18270
FB-1	07/20/2016	14:30	3	Field Blank		AW18271
MW-9D	07/20/2016	15:40	4	Groundwater		AW18272

Relinquished By	Received By	Date/Time
 Benjamin Rothschild <small>Digitally signed by Benjamin Rothschild DN: cn=Benjamin Rothschild, o=Alabama Power, ou, email=X2BTROTTH@southernco.com, c=US Date: 2016.07.21 07:44:36 -05'00'</small>	 Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkorneg@southernco.com, c=US Date: 2016.07.21 09:09:55 -05'00'</small>	07/20/2016 16:17 07/21/2016 08:00

SmarTroll ID	4696-23444-3-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Cooler Temp	1.4 degrees C	
Thermometer ID	4303-21829-1-1	
pH Strip ID	4831-24380-20-7	



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

Field Complete

Lab Complete

Lab ETA **07/21/2016 13:30**

Requested Complete Date	Routine
Site Representative	Jeff K. Baker
Collector	Jason Rouss

Results To	Dustin Brooks, John Pugh, Greg Dyer
Requested By	Greg Dyer
Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9S	07/20/2016	17:55	3	Groundwater		AW18387
MW-7S	07/21/2016	09:25	3	Groundwater		AW18388
MW-7S Dup	07/21/2016	09:25	3	Sample Duplicate		AW18389
MW-7D	07/21/2016	10:40	3	Groundwater		AW18390

Relinquished By	Received By	Date/Time
	Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkorneg@southernco.com, c=US Date: 2016.07.21 14:17:21 -0500</small>	07/21/2016 12:50

SmarTroll ID	4696-23444-3-3
Turbidity ID	4677-23342-4-1

All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Cooler Temp	1.2 degrees C
Thermometer ID	2403-7026-4-2
pH Strip ID	4611-23045-10-1



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 07/26/2016 08:00

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	07/25/2016	11:50	3	Groundwater		AW18704
MW-8S	07/25/2016	13:30	3	Groundwater		AW18705
MW-8S Dup	07/25/2016	13:30	3	Sample Duplicate		AW18706
MW-8D	07/25/2016	14:50	4	Groundwater		AW18707

Relinquished By	Received By	Date/Time
 <small>Digitally signed by Benjamin Rothschadl DN: cn=Benjamin Rothschadl, o=Alabama Power, ou, email=X2BTROTTH@southernco.com, c=US Date: 2016.07.26 07:56:24 -05'00'</small>	 <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkorneg@southernco.com, c=US Date: 2016.07.26 09:26:25 -05'00'</small>	07/25/2016 15:43
Benjamin Rothschadl	Keith Kornegay	07/26/2016 08:30

SmarTroll ID	4696-23444-3-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
		1.2 degrees C
		Thermometer ID
		4303-21829-1-1
		pH Strip ID
		4831-24387-20-14



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 07/26/2016 07:57

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Nick Pitts"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle"/>		
Comments	<input type="text"/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	07/25/2016	12:40	3	Groundwater		AW18708
MW-2	07/25/2016	14:15	3	Groundwater		AW18709
FB-3	07/25/2016	15:30	3	Field Blank		AW18710
EB-1	07/25/2016	16:45	3	Equipment Blank		AW18711
MW-11	07/25/2016	16:10	3	Groundwater		AW18712

Relinquished By	Received By	Date/Time
	Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkorneg@southernco.com, c=US Date: 2016.07.26 09:30:40 -0500</small>	07/26/2016 07:57

SmarTroll ID	<input type="text" value="5141-26150-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="4677-23343-4-2"/>	Cooler Temp
		<input type="text" value="1.0 degrees C"/>
		Thermometer ID
		<input type="text" value="4303-21829-1-1"/>
		pH Strip ID
		<input type="text" value="4831-24387-20-14"/>



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 07/27/2016 08:00

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments			

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6	07/26/2016	09:20	3	Groundwater		AW18879
FB-2	07/26/2016	09:28	3	Field Blank		AW18880
MW-5	07/26/2016	10:28	3	Groundwater		AW18881
PZ-5	07/26/2016	15:38	3	Groundwater		AW18882

Relinquished By 	Received By Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power, ou, email=kkorneg@southernco.com, c=US Date: 2016.07.27 08:33:08 -05'00'</small>	Date/Time 07/27/2016 07:30

SmarTroll ID	4696-23444-3-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
		1.3 degrees C
		Thermometer ID
		4303-21829-1-1
		pH Strip ID
		4831-24387-20-14

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: 400-125411-1

TestAmerica Sample Delivery Group: Miller Ash Pond (1)

Client Project/Site: CCR Plant Miller

For:

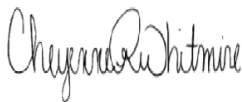
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

9/1/2016 5:24:57 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC 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 Miller

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

Job ID: 400-125411-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-125411-1

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-263987: The following samples were prepared at a reduced aliquot due to limited volume. AW-18158 MW-3D (400-125411-1), AW-18159 MW-3S (400-125411-2), AW-18160 MW-4 (400-125411-3), AW-18161 MW-4 DUP (400-125411-4), AW-18162 MW-16 (400-125411-5), AW-18163 MW-15 (400-125411-6), AW18267 MW-14 (400-125411-7), AW18268 MW-13D (400-125411-8), AW18269 MW-13S (400-125411-9), AW18270 MW-12 (400-125411-10), AW18271 FB-1 (400-125411-11), AW18272 MW-9D (400-125411-12), AW18272 MW-9D DUP (400-125411-12[DU]), AW18387 MW-9S (400-125411-13), AW18388 MW-7S (400-125411-14), AW18389 MW-7S DUP (400-125411-15), AW18390 MW-7D (400-125411-16), AW18704 MW-10 (400-125411-17), AW18705 MW-8S (400-125411-18) and AW18706 MW-8S DUP (400-125411-19)

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-263958: The following sample were prepared at a reduced aliquot due to limited volume. AW18707 MW-8D (400-125411-20), AW18707 MW-8D DUP (400-125411-20[DU]), AW18708 MW-10 (400-125411-21), AW18709 MW-2 (400-125411-22), AW18710 FB-3 (400-125411-23), AW18711 EB-1 (400-125411-24), AW18712 MW-11 (400-125411-25), AW18879 MW-6 (400-125411-26), AW18880 FB-2 (400-125411-27), AW18881 MW-5 (400-125411-28) and AW18882 PZ-5 (400-125411-29)

Method(s) PrecSep-21: Radium-226 Prep Batch: 160-263986: The following sample were prepared at a reduced aliquot due to limited volume. AW-18158 MW-3D (400-125411-1), AW-18159 MW-3S (400-125411-2), AW-18160 MW-4 (400-125411-3), AW-18161 MW-4 DUP (400-125411-4), AW-18162 MW-16 (400-125411-5), AW-18163 MW-15 (400-125411-6), AW18267 MW-14 (400-125411-7), AW18268 MW-13D (400-125411-8), AW18269 MW-13S (400-125411-9), AW18270 MW-12 (400-125411-10), AW18271 FB-1 (400-125411-11), AW18272 MW-9D (400-125411-12), AW18272 MW-9D DUP (400-125411-12[DU]), AW18387 MW-9S (400-125411-13), AW18388 MW-7S (400-125411-14), AW18389 MW-7S DUP (400-125411-15), AW18390 MW-7D (400-125411-16), AW18704 MW-10 (400-125411-17), AW18705 MW-8S (400-125411-18) and AW18706 MW-8S DUP (400-125411-19)

Method(s) PrecSep-21: Radium-226 Prep Batch: 160-263951: The following sample were prepared at a reduced aliquot due to limited volume. AW18707 MW-8D (400-125411-20), AW18707 MW-8D DUP (400-125411-20[DU]), AW18708 MW-10 (400-125411-21), AW18709 MW-2 (400-125411-22), AW18710 FB-3 (400-125411-23), AW18711 EB-1 (400-125411-24), AW18712 MW-11 (400-125411-25), AW18879 MW-6 (400-125411-26), AW18880 FB-2 (400-125411-27), AW18881 MW-5 (400-125411-28) and AW18882 PZ-5 (400-125411-29)

Method Summary

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

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

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 Miller

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-125411-1	AW18158 MW-3D	Water	07/19/16 13:40	08/05/16 16:05
400-125411-2	AW18159 MW-3S	Water	07/19/16 15:15	08/05/16 16:05
400-125411-3	AW18160 MW-4	Water	07/19/16 16:15	08/05/16 16:05
400-125411-4	AW18161 MW-4 DUP	Water	07/19/16 16:15	08/05/16 16:05
400-125411-5	AW18162 MW-16	Water	07/19/16 11:07	08/05/16 16:05
400-125411-6	AW18163 MW-15	Water	07/19/16 12:10	08/05/16 16:05
400-125411-7	AW18267 MW-14	Water	07/20/16 09:50	08/05/16 16:05
400-125411-8	AW18268 MW-13D	Water	07/20/16 11:20	08/05/16 16:05
400-125411-9	AW18269 MW-13S	Water	07/20/16 12:53	08/05/16 16:05
400-125411-10	AW18270 MW-12	Water	07/20/16 14:23	08/05/16 16:05
400-125411-11	AW18271 FB-1	Water	07/20/16 14:30	08/05/16 16:05
400-125411-12	AW18272 MW-9D	Water	07/20/16 15:40	08/05/16 16:05
400-125411-13	AW18387 MW-9S	Water	07/20/16 17:55	08/05/16 16:05
400-125411-14	AW18388 MW-7S	Water	07/21/16 09:25	08/05/16 16:05
400-125411-15	AW18389 MW-7S DUP	Water	07/21/16 09:25	08/05/16 16:05
400-125411-16	AW18390 MW-7D	Water	07/21/16 10:40	08/05/16 16:05
400-125411-17	AW18704 MW-10	Water	07/25/16 11:50	08/05/16 16:05
400-125411-18	AW18705 MW-8S	Water	07/25/16 13:30	08/05/16 16:05
400-125411-19	AW18706 MW-8S DUP	Water	07/25/16 13:30	08/05/16 16:05
400-125411-20	AW18707 MW-8D	Water	07/25/16 14:50	08/05/16 16:05
400-125411-21	AW18708 MW-10	Water	07/25/16 12:40	08/05/16 16:05
400-125411-22	AW18709 MW-2	Water	07/25/16 14:15	08/05/16 16:05
400-125411-23	AW18710 FB-3	Water	07/25/16 15:30	08/05/16 16:05
400-125411-24	AW18711 EB-1	Water	07/25/16 16:45	08/05/16 16:05
400-125411-25	AW18712 MW-11	Water	07/25/16 16:10	08/05/16 16:05
400-125411-26	AW18879 MW-6	Water	07/26/16 09:20	08/05/16 16:05
400-125411-27	AW18880 FB-2	Water	07/26/16 09:28	08/05/16 16:05
400-125411-28	AW18881 MW-5	Water	07/26/16 10:28	08/05/16 16:05
400-125411-29	AW18882 PZ-5	Water	07/26/16 15:38	08/05/16 16:05

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18158 MW-3D

Lab Sample ID: 400-125411-1

Date Collected: 07/19/16 13:40

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0345	U	0.0563	0.0564	1.00	0.0974	pCi/L	08/08/16 21:59	08/30/16 09:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110					08/08/16 21:59	08/30/16 09:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.217	U	0.315	0.315	1.00	0.528	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	81.1		40 - 110					08/08/16 22:24	08/22/16 12:25	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.251	U	0.320	0.320	5.00	0.528	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18159 MW-3S

Lab Sample ID: 400-125411-2

Date Collected: 07/19/16 15:15

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0834		0.0575	0.0579	1.00	0.0798	pCi/L	08/08/16 21:59	08/30/16 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					08/08/16 21:59	08/30/16 09:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.102	U	0.280	0.280	1.00	0.513	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	90.1		40 - 110					08/08/16 22:24	08/22/16 12:25	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	-0.0190	U	0.285	0.286	5.00	0.513	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18160 MW-4

Lab Sample ID: 400-125411-3

Date Collected: 07/19/16 16:15

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.383		0.102	0.108	1.00	0.0847	pCi/L	08/08/16 21:59	08/30/16 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					08/08/16 21:59	08/30/16 09:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.328	0.328	1.00	0.547	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	80.7		40 - 110					08/08/16 22:24	08/22/16 12:25	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	0.621		0.343	0.346	5.00	0.547	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18161 MW-4 DUP

Lab Sample ID: 400-125411-4

Date Collected: 07/19/16 16:15

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.160		0.0832	0.0844	1.00	0.110	pCi/L	08/08/16 21:59	08/30/16 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					08/08/16 21:59	08/30/16 09:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.294	U	0.347	0.348	1.00	0.572	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	79.6		40 - 110					08/08/16 22:24	08/22/16 12:25	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	0.454	U	0.356	0.358	5.00	0.572	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18162 MW-16

Lab Sample ID: 400-125411-5

Date Collected: 07/19/16 11:07

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0995	0.102	1.00	0.126	pCi/L	08/08/16 21:59	08/30/16 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					08/08/16 21:59	08/30/16 09:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.227	U	0.314	0.314	1.00	0.525	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	79.3		40 - 110					08/08/16 22:24	08/22/16 12:25	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	0.456	U	0.329	0.330	5.00	0.525	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18163 MW-15

Lab Sample ID: 400-125411-6

Date Collected: 07/19/16 12:10

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116		0.0690	0.0698	1.00	0.0910	pCi/L	08/08/16 21:59	08/30/16 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					08/08/16 21:59	08/30/16 09:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0753	U	0.275	0.276	1.00	0.486	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	82.6		40 - 110					08/08/16 22:24	08/22/16 12:25	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	0.191	U	0.284	0.284	5.00	0.486	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18267 MW-14

Lab Sample ID: 400-125411-7

Date Collected: 07/20/16 09:50

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.227		0.0827	0.0851	1.00	0.0816	pCi/L	08/08/16 21:59	08/30/16 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					08/08/16 21:59	08/30/16 09:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.159	U	0.343	0.344	1.00	0.587	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	82.6		40 - 110					08/08/16 22:24	08/22/16 12:25	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.386	U	0.353	0.354	5.00	0.587	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18268 MW-13D

Lab Sample ID: 400-125411-8

Date Collected: 07/20/16 11:20

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.214		0.0927	0.0947	1.00	0.117	pCi/L	08/08/16 21:59	08/30/16 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					08/08/16 21:59	08/30/16 13:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.110	U	0.322	0.322	1.00	0.560	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	80.4		40 - 110					08/08/16 22:24	08/22/16 12:25	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	0.324	U	0.335	0.336	5.00	0.560	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18269 MW-13S

Lab Sample ID: 400-125411-9

Date Collected: 07/20/16 12:53

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0548	U	0.0647	0.0649	1.00	0.106	pCi/L	08/08/16 21:59	08/30/16 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					08/08/16 21:59	08/30/16 13:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0117	U	0.267	0.267	1.00	0.481	pCi/L	08/08/16 22:24	08/22/16 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					08/08/16 22:24	08/22/16 12:25	1
Y Carrier	80.0		40 - 110					08/08/16 22:24	08/22/16 12:25	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	0.0664	U	0.275	0.275	5.00	0.481	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18270 MW-12

Lab Sample ID: 400-125411-10

Date Collected: 07/20/16 14:23

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.181		0.0844	0.0859	1.00	0.107	pCi/L	08/08/16 21:59	08/30/16 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					08/08/16 21:59	08/30/16 13:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0900	U	0.274	0.274	1.00	0.478	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	85.2		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.286	0.287	5.00	0.478	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18271 FB-1

Lab Sample ID: 400-125411-11

Date Collected: 07/20/16 14:30

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0499	U	0.0646	0.0648	1.00	0.108	pCi/L	08/08/16 21:59	08/30/16 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/08/16 21:59	08/30/16 13:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.284	U	0.293	0.294	1.00	0.476	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	83.4		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.300	0.301	5.00	0.476	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18272 MW-9D

Lab Sample ID: 400-125411-12

Date Collected: 07/20/16 15:40

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212		0.0866	0.0887	1.00	0.0987	pCi/L	08/08/16 21:59	08/30/16 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					08/08/16 21:59	08/30/16 13:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.254	U	0.295	0.296	1.00	0.486	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	82.2		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.466	U	0.307	0.309	5.00	0.486	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18387 MW-9S

Lab Sample ID: 400-125411-13

Date Collected: 07/20/16 17:55

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.110		0.0675	0.0682	1.00	0.0920	pCi/L	08/08/16 21:59	08/30/16 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					08/08/16 21:59	08/30/16 13:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.181	U	0.250	0.250	1.00	0.417	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	84.9		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.291	U	0.259	0.259	5.00	0.417	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18388 MW-7S

Lab Sample ID: 400-125411-14

Date Collected: 07/21/16 09:25

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.189		0.0926	0.0941	1.00	0.123	pCi/L	08/08/16 21:59	08/30/16 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					08/08/16 21:59	08/30/16 13:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0193	U	0.276	0.276	1.00	0.492	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	84.9		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.209	U	0.291	0.291	5.00	0.492	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18389 MW-7S DUP

Lab Sample ID: 400-125411-15

Date Collected: 07/21/16 09:25

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.287		0.113	0.116	1.00	0.143	pCi/L	08/08/16 21:59	08/30/16 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					08/08/16 21:59	08/30/16 13:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.527		0.316	0.319	1.00	0.479	pCi/L	08/08/16 22:24	08/22/16 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					08/08/16 22:24	08/22/16 12:02	1
Y Carrier	85.6		40 - 110					08/08/16 22:24	08/22/16 12:02	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.814		0.335	0.340	5.00	0.479	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18390 MW-7D

Lab Sample ID: 400-125411-16

Date Collected: 07/21/16 10:40

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176		0.0776	0.0792	1.00	0.0889	pCi/L	08/08/16 21:59	08/30/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					08/08/16 21:59	08/30/16 13:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.338	U	0.296	0.298	1.00	0.472	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	81.1		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.514		0.306	0.308	5.00	0.472	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18704 MW-10

Lab Sample ID: 400-125411-17

Date Collected: 07/25/16 11:50

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0893	U	0.0799	0.0803	1.00	0.125	pCi/L	08/08/16 21:59	08/30/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					08/08/16 21:59	08/30/16 13:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.409	0.410	1.00	0.702	pCi/L	08/08/16 22:24	08/22/16 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					08/08/16 22:24	08/22/16 12:24	1
Y Carrier	83.7		40 - 110					08/08/16 22:24	08/22/16 12:24	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	0.233	U	0.417	0.417	5.00	0.702	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18705 MW-8S

Lab Sample ID: 400-125411-18

Date Collected: 07/25/16 13:30

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151		0.0891	0.0902	1.00	0.127	pCi/L	08/08/16 21:59	08/30/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					08/08/16 21:59	08/30/16 13:44	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	0.330	0.331	1.00	0.562	pCi/L	08/08/16 22:24	08/22/16 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					08/08/16 22:24	08/22/16 12:27	1
Y Carrier	82.6		40 - 110					08/08/16 22:24	08/22/16 12:27	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	0.323	U	0.342	0.343	5.00	0.562	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18706 MW-8S DUP

Lab Sample ID: 400-125411-19

Date Collected: 07/25/16 13:30

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114		0.0755	0.0762	1.00	0.107	pCi/L	08/08/16 21:59	08/30/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					08/08/16 21:59	08/30/16 13:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.453	U	0.324	0.327	1.00	0.506	pCi/L	08/08/16 22:24	08/22/16 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					08/08/16 22:24	08/22/16 12:27	1
Y Carrier	86.0		40 - 110					08/08/16 22:24	08/22/16 12:27	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	0.567		0.333	0.336	5.00	0.506	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18707 MW-8D

Lab Sample ID: 400-125411-20

Date Collected: 07/25/16 14:50

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105	U	0.115	0.115	1.00	0.184	pCi/L	08/08/16 15:29	08/30/16 17:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					08/08/16 15:29	08/30/16 17:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.200	U	0.352	0.352	1.00	0.595	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	83.4		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.305	U	0.370	0.370	5.00	0.595	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18708 MW-10

Lab Sample ID: 400-125411-21

Date Collected: 07/25/16 12:40

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.260		0.142	0.144	1.00	0.179	pCi/L	08/08/16 15:29	08/30/16 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					08/08/16 15:29	08/30/16 17:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.201	U	0.359	0.359	1.00	0.671	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	79.3		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.0598	U	0.386	0.387	5.00	0.671	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18709 MW-2

Lab Sample ID: 400-125411-22

Date Collected: 07/25/16 14:15

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.288		0.154	0.156	1.00	0.193	pCi/L	08/08/16 15:29	08/30/16 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					08/08/16 15:29	08/30/16 17:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.529	U	0.395	0.398	1.00	0.621	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	83.4		40 - 110					08/08/16 16:23	08/29/16 16:25	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.817		0.424	0.428	5.00	0.621	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18710 FB-3

Lab Sample ID: 400-125411-23

Date Collected: 07/25/16 15:30

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131	U	0.176	0.177	1.00	0.295	pCi/L	08/08/16 15:29	08/30/16 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					08/08/16 15:29	08/30/16 17:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0517	U	0.341	0.341	1.00	0.604	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	79.6		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.183	U	0.384	0.384	5.00	0.604	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18711 EB-1

Lab Sample ID: 400-125411-24

Date Collected: 07/25/16 16:45

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0387	U	0.104	0.105	1.00	0.222	pCi/L	08/08/16 15:29	08/30/16 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					08/08/16 15:29	08/30/16 17:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.336	U	0.307	0.308	1.00	0.492	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	84.1		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.298	U	0.324	0.326	5.00	0.492	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18712 MW-11

Lab Sample ID: 400-125411-25

Date Collected: 07/25/16 16:10

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.169	U	0.145	0.146	1.00	0.220	pCi/L	08/08/16 15:29	08/30/16 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					08/08/16 15:29	08/30/16 17:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.436	U	0.388	0.390	1.00	0.619	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	76.3		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.604	U	0.414	0.416	5.00	0.619	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18879 MW-6

Lab Sample ID: 400-125411-26

Date Collected: 07/26/16 09:20

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0436	U	0.124	0.124	1.00	0.227	pCi/L	08/08/16 15:29	08/30/16 17:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					08/08/16 15:29	08/30/16 17:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.415	U	0.415	0.417	1.00	0.675	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	76.3		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.459	U	0.433	0.435	5.00	0.675	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18880 FB-2

Lab Sample ID: 400-125411-27

Date Collected: 07/26/16 09:28

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0331	U	0.103	0.103	1.00	0.193	pCi/L	08/08/16 15:29	08/30/16 17:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					08/08/16 15:29	08/30/16 17:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.514	U	0.349	0.352	1.00	0.540	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	82.2		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.547		0.364	0.367	5.00	0.540	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18881 MW-5

Lab Sample ID: 400-125411-28

Date Collected: 07/26/16 10:28

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0579	U	0.121	0.121	1.00	0.216	pCi/L	08/08/16 15:29	08/30/16 17:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					08/08/16 15:29	08/30/16 17:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.147	U	0.321	0.322	1.00	0.553	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	81.5		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.205	U	0.343	0.344	5.00	0.553	pCi/L		09/01/16 09:59	1

Client Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18882 PZ-5

Lab Sample ID: 400-125411-29

Date Collected: 07/26/16 15:38

Matrix: Water

Date Received: 08/05/16 16:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220	U	0.173	0.174	1.00	0.263	pCi/L	08/08/16 15:29	08/30/16 17:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110					08/08/16 15:29	08/30/16 17:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.111	U	0.337	0.337	1.00	0.588	pCi/L	08/08/16 16:23	08/29/16 16:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110					08/08/16 16:23	08/29/16 16:25	1
Y Carrier	75.9		40 - 110					08/08/16 16:23	08/29/16 16:25	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	0.331	U	0.379	0.379	5.00	0.588	pCi/L		09/01/16 09:59	1

Definitions/Glossary

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

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

Client Sample ID: AW18158 MW-3D

Lab Sample ID: 400-125411-1

Date Collected: 07/19/16 13:40

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:19	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18159 MW-3S

Lab Sample ID: 400-125411-2

Date Collected: 07/19/16 15:15

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18160 MW-4

Lab Sample ID: 400-125411-3

Date Collected: 07/19/16 16:15

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18161 MW-4 DUP

Lab Sample ID: 400-125411-4

Date Collected: 07/19/16 16:15

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18162 MW-16

Lab Sample ID: 400-125411-5

Date Collected: 07/19/16 11:07

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18163 MW-15

Lab Sample ID: 400-125411-6

Date Collected: 07/19/16 12:10

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18267 MW-14

Lab Sample ID: 400-125411-7

Date Collected: 07/20/16 09:50

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 09:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18268 MW-13D

Lab Sample ID: 400-125411-8

Date Collected: 07/20/16 11:20

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 13:56	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18269 MW-13S

Lab Sample ID: 400-125411-9

Date Collected: 07/20/16 12:53

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 13:56	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18270 MW-12

Lab Sample ID: 400-125411-10

Date Collected: 07/20/16 14:23

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 13:56	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18271 FB-1

Lab Sample ID: 400-125411-11

Date Collected: 07/20/16 14:30

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18272 MW-9D

Lab Sample ID: 400-125411-12

Date Collected: 07/20/16 15:40

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18387 MW-9S

Lab Sample ID: 400-125411-13

Date Collected: 07/20/16 17:55

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18388 MW-7S

Lab Sample ID: 400-125411-14

Date Collected: 07/21/16 09:25

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18389 MW-7S DUP

Lab Sample ID: 400-125411-15

Date Collected: 07/21/16 09:25

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18390 MW-7D

Lab Sample ID: 400-125411-16

Date Collected: 07/21/16 10:40

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18704 MW-10

Lab Sample ID: 400-125411-17

Date Collected: 07/25/16 11:50

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18705 MW-8S

Lab Sample ID: 400-125411-18

Date Collected: 07/25/16 13:30

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265964	08/22/16 12:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18706 MW-8S DUP

Lab Sample ID: 400-125411-19

Date Collected: 07/25/16 13:30

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263986	08/08/16 21:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	267348	08/30/16 13:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263987	08/08/16 22:24	MCJ	TAL SL
Total/NA	Analysis	9320		1	265964	08/22/16 12:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18707 MW-8D

Lab Sample ID: 400-125411-20

Date Collected: 07/25/16 14:50

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 17:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Client Sample ID: AW18708 MW-10

Lab Sample ID: 400-125411-21

Date Collected: 07/25/16 12:40

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18709 MW-2

Lab Sample ID: 400-125411-22

Date Collected: 07/25/16 14:15

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18710 FB-3

Lab Sample ID: 400-125411-23

Date Collected: 07/25/16 15:30

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18711 EB-1

Lab Sample ID: 400-125411-24

Date Collected: 07/25/16 16:45

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

Client Sample ID: AW18712 MW-11

Lab Sample ID: 400-125411-25

Date Collected: 07/25/16 16:10

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18879 MW-6

Lab Sample ID: 400-125411-26

Date Collected: 07/26/16 09:20

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18880 FB-2

Lab Sample ID: 400-125411-27

Date Collected: 07/26/16 09:28

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Client Sample ID: AW18881 MW-5

Lab Sample ID: 400-125411-28

Date Collected: 07/26/16 10:28

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

Client Sample ID: AW18882 PZ-5

Lab Sample ID: 400-125411-29

Date Collected: 07/26/16 15:38

Matrix: Water

Date Received: 08/05/16 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			263951	08/08/16 15:29	MRB	TAL SL
Total/NA	Analysis	9315		1	267344	08/30/16 17:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			263958	08/08/16 16:23	MCJ	TAL SL
Total/NA	Analysis	9320		1	267089	08/29/16 16:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267634	09/01/16 09:59	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 Miller

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Rad

Prep Batch: 263951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125411-20	AW18707 MW-8D	Total/NA	Water	PrecSep-21	
400-125411-21	AW18708 MW-10	Total/NA	Water	PrecSep-21	
400-125411-22	AW18709 MW-2	Total/NA	Water	PrecSep-21	
400-125411-23	AW18710 FB-3	Total/NA	Water	PrecSep-21	
400-125411-24	AW18711 EB-1	Total/NA	Water	PrecSep-21	
400-125411-25	AW18712 MW-11	Total/NA	Water	PrecSep-21	
400-125411-26	AW18879 MW-6	Total/NA	Water	PrecSep-21	
400-125411-27	AW18880 FB-2	Total/NA	Water	PrecSep-21	
400-125411-28	AW18881 MW-5	Total/NA	Water	PrecSep-21	
400-125411-29	AW18882 PZ-5	Total/NA	Water	PrecSep-21	
MB 160-263951/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-263951/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-125411-20 DU	AW18707 MW-8D DUP	Total/NA	Water	PrecSep-21	

Prep Batch: 263958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125411-20	AW18707 MW-8D	Total/NA	Water	PrecSep_0	
400-125411-21	AW18708 MW-10	Total/NA	Water	PrecSep_0	
400-125411-22	AW18709 MW-2	Total/NA	Water	PrecSep_0	
400-125411-23	AW18710 FB-3	Total/NA	Water	PrecSep_0	
400-125411-24	AW18711 EB-1	Total/NA	Water	PrecSep_0	
400-125411-25	AW18712 MW-11	Total/NA	Water	PrecSep_0	
400-125411-26	AW18879 MW-6	Total/NA	Water	PrecSep_0	
400-125411-27	AW18880 FB-2	Total/NA	Water	PrecSep_0	
400-125411-28	AW18881 MW-5	Total/NA	Water	PrecSep_0	
400-125411-29	AW18882 PZ-5	Total/NA	Water	PrecSep_0	
MB 160-263958/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-263958/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-125411-20 DU	AW18707 MW-8D DUP	Total/NA	Water	PrecSep_0	

Prep Batch: 263986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125411-1	AW18158 MW-3D	Total/NA	Water	PrecSep-21	
400-125411-2	AW18159 MW-3S	Total/NA	Water	PrecSep-21	
400-125411-3	AW18160 MW-4	Total/NA	Water	PrecSep-21	
400-125411-4	AW18161 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-125411-5	AW18162 MW-16	Total/NA	Water	PrecSep-21	
400-125411-6	AW18163 MW-15	Total/NA	Water	PrecSep-21	
400-125411-7	AW18267 MW-14	Total/NA	Water	PrecSep-21	
400-125411-8	AW18268 MW-13D	Total/NA	Water	PrecSep-21	
400-125411-9	AW18269 MW-13S	Total/NA	Water	PrecSep-21	
400-125411-10	AW18270 MW-12	Total/NA	Water	PrecSep-21	
400-125411-11	AW18271 FB-1	Total/NA	Water	PrecSep-21	
400-125411-12	AW18272 MW-9D	Total/NA	Water	PrecSep-21	
400-125411-13	AW18387 MW-9S	Total/NA	Water	PrecSep-21	
400-125411-14	AW18388 MW-7S	Total/NA	Water	PrecSep-21	
400-125411-15	AW18389 MW-7S DUP	Total/NA	Water	PrecSep-21	
400-125411-16	AW18390 MW-7D	Total/NA	Water	PrecSep-21	
400-125411-17	AW18704 MW-10	Total/NA	Water	PrecSep-21	
400-125411-18	AW18705 MW-8S	Total/NA	Water	PrecSep-21	
400-125411-19	AW18706 MW-8S DUP	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Rad (Continued)

Prep Batch: 263986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-263986/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-263986/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-125411-12 DU	AW18272 MW-9D DUP	Total/NA	Water	PrecSep-21	

Prep Batch: 263987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125411-1	AW18158 MW-3D	Total/NA	Water	PrecSep_0	
400-125411-2	AW18159 MW-3S	Total/NA	Water	PrecSep_0	
400-125411-3	AW18160 MW-4	Total/NA	Water	PrecSep_0	
400-125411-4	AW18161 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-125411-5	AW18162 MW-16	Total/NA	Water	PrecSep_0	
400-125411-6	AW18163 MW-15	Total/NA	Water	PrecSep_0	
400-125411-7	AW18267 MW-14	Total/NA	Water	PrecSep_0	
400-125411-8	AW18268 MW-13D	Total/NA	Water	PrecSep_0	
400-125411-9	AW18269 MW-13S	Total/NA	Water	PrecSep_0	
400-125411-10	AW18270 MW-12	Total/NA	Water	PrecSep_0	
400-125411-11	AW18271 FB-1	Total/NA	Water	PrecSep_0	
400-125411-12	AW18272 MW-9D	Total/NA	Water	PrecSep_0	
400-125411-13	AW18387 MW-9S	Total/NA	Water	PrecSep_0	
400-125411-14	AW18388 MW-7S	Total/NA	Water	PrecSep_0	
400-125411-15	AW18389 MW-7S DUP	Total/NA	Water	PrecSep_0	
400-125411-16	AW18390 MW-7D	Total/NA	Water	PrecSep_0	
400-125411-17	AW18704 MW-10	Total/NA	Water	PrecSep_0	
400-125411-18	AW18705 MW-8S	Total/NA	Water	PrecSep_0	
400-125411-19	AW18706 MW-8S DUP	Total/NA	Water	PrecSep_0	
MB 160-263987/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-263987/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-125411-12 DU	AW18272 MW-9D DUP	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-263951/1-A
Matrix: Water
Analysis Batch: 267348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263951

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02720	U	0.123	0.123	1.00	0.225	pCi/L	08/08/16 15:29	08/30/16 17:24	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	80.1		40 - 110	08/08/16 15:29	08/30/16 17:24	1				

Lab Sample ID: LCS 160-263951/2-A
Matrix: Water
Analysis Batch: 267472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263951

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	12.79		1.32	1.00	0.186	pCi/L	115	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	94.3		40 - 110	08/08/16 15:29	08/30/16 17:24	1			

Lab Sample ID: 400-125411-20 DU
Matrix: Water
Analysis Batch: 267344

Client Sample ID: AW18707 MW-8D DUP
Prep Type: Total/NA
Prep Batch: 263951

Analyte	Sample Sample		FD	FD	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.105	U	0.08509	U	0.131	1.00	0.225	pCi/L	0.08	1
Carrier	FD FD		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	88.9		40 - 110	08/08/16 15:29	08/30/16 17:24	1				

Lab Sample ID: MB 160-263986/1-A
Matrix: Water
Analysis Batch: 267344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263986

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.0009009	U	0.0463	0.0463	1.00	0.0893	pCi/L	08/08/16 21:59	08/30/16 09:19	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	85.8		40 - 110	08/08/16 21:59	08/30/16 09:19	1				

Lab Sample ID: LCS 160-263986/2-A
Matrix: Water
Analysis Batch: 267344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263986

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	14.24		1.38	1.00	0.0842	pCi/L	128	68 - 137

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-263986/2-A
Matrix: Water
Analysis Batch: 267344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263986

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.3		40 - 110

Lab Sample ID: 400-125411-12 DU
Matrix: Water
Analysis Batch: 267348

Client Sample ID: AW18272 MW-9D DUP
Prep Type: Total/NA
Prep Batch: 263986

Analyte	Sample Result	Sample Qual	FD Result	FD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.212		0.1640		0.0766	1.00	0.0876	pCi/L	0.29	1

Carrier	FD %Yield	FD Qualifier	Limits
Ba Carrier	92.9		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-263958/1-A
Matrix: Water
Analysis Batch: 267089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263958

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2347	U	0.388	0.388	1.00	0.728	pCi/L	08/08/16 16:23	08/29/16 16:26	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110	08/08/16 16:23	08/29/16 16:26	1
Y Carrier	79.6		40 - 110	08/08/16 16:23	08/29/16 16:26	1

Lab Sample ID: LCS 160-263958/2-A
Matrix: Water
Analysis Batch: 267089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263958

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	19.5	21.82		2.33	1.00	0.601	pCi/L	112	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.3		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: 400-125411-20 DU
Matrix: Water
Analysis Batch: 267089

Client Sample ID: AW18707 MW-8D DUP
Prep Type: Total/NA
Prep Batch: 263958

Analyte	Sample Result	Sample Qual	FD Result	FD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.200	U	0.06111	U	0.306	1.00	0.541	pCi/L	0.21	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-125411-20 DU
Matrix: Water
Analysis Batch: 267089

Client Sample ID: AW18707 MW-8D DUP
Prep Type: Total/NA
Prep Batch: 263958

	FD	FD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.9		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: MB 160-263987/1-A
Matrix: Water
Analysis Batch: 265959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263987

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.06173	U	0.346	0.346	1.00	0.624	pCi/L	08/08/16 22:24	08/22/16 12:24	1

Carrier	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	85.8		40 - 110	08/08/16 22:24	08/22/16 12:24	1
Y Carrier	82.2		40 - 110	08/08/16 22:24	08/22/16 12:24	1

Lab Sample ID: LCS 160-263987/2-A
Matrix: Water
Analysis Batch: 265959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263987

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
									Limits	
Radium-228	19.6	23.18		2.46	1.00	0.590	pCi/L	118	56 - 140	

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	86.3		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 400-125411-12 DU
Matrix: Water
Analysis Batch: 265959

Client Sample ID: AW18272 MW-9D DUP
Prep Type: Total/NA
Prep Batch: 263987

Analyte	Sample		FD		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	0.254	U	0.1528	U	0.246	1.00	0.416	pCi/L	0.19	1

Carrier	FD	FD	Limits
	%Yield	Qualifier	
Ba Carrier	92.9		40 - 110
Y Carrier	86.7		40 - 110

QC Sample Results

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-125411-12 DU
Matrix: Water
Analysis Batch: 267634

Client Sample ID: AW18272 MW-9D DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	FD Result	FD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.466	U	0.3168	U	0.257	5.00	0.416	pCi/L	0.26	

Lab Sample ID: 400-125411-20 DU
Matrix: Water
Analysis Batch: 267634

Client Sample ID: AW18707 MW-8D DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	FD Result	FD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.305	U	0.1462	U	0.333	5.00	0.541	pCi/L	0.23	

- 1
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Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier (Tracking No(s)):		COC No: 400-56585-24537.1	
Client Contact: Sarah Copeland		Phone: Nick Pitts / Jason Rouss		E-Mail: cheyenne.whitmire@testamericainc.com		Page: 1 of 3	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested		Job #: 400-125411	
Address: 744 County Rd 87 GSC #8		TAT Requested (days): Routine		9315_Ra226_9320_Ra228_Ra226Ra228_GPPC		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: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
City: Calera		PO #:		Field Filled Sample (Yes or No)		Total Number of Containers	
State, Zip: AL, 35040		WO #:		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Phone: 205-664-6121(Tel)		Project #: 40007143		Field Filled Sample (Yes or No)		MW-3D	
Email: sgcopela@southernco.com		SSOW #:		Matrix (W=water, S=solid, O=water/oil, ST=Stress, A=Air)		MW-3S	
Project Name: CCR		Site: Miller Ash Pond (1)		Sample Type (C=comp, G=grab)		MW-4	
Sample Identification		Sample Date		Sample Time		MW-4 Dup (Sample Duplicate)	
AW18158	7/19/16	1340	G	Water	X	MW-16	MW-15
AW18159	7/19/16	1515	G	Water	X	MW-14	MW-13D
AW18160	7/19/16	1615	G	Water	X	MW-13S	MW-12
AW18161	7/19/16	1615	G	Water	X	FB-1 (Field Blank)	400-125411 COC
AW18162	7/19/16	1107	G	Water	X		
AW18163	7/19/16	1210	G	Water	X		
AW18267	7/20/16	0950	G	Water	X		
AW18268	7/20/16	1120	G	Water	X		
AW18269	7/20/16	1253	G	Water	X		
AW18270	7/20/16	1423	G	Water	X		
AW18271	7/20/16	1430	G	Water	X		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:		Method of Shipment:	
<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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: Sarah Copeland		Date/Time: 08/04/2016; 0830		Company: APC		Received by: [Signature]	
Relinquished by:		Date/Time:		Company:		Date/Time: 8/5/16 1605	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No							



Chain of Custody Record



Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		Phone: Nick Pitts / Jason Rouss		E-Mail: cheyenne.whitmire@testamericainc.com		Page: 2 of 3	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested		Job #: 400-125411	
Address: 744 County Rd 87 GSC #8		TAT Requested (days): Routine		Total Number of Containers		Preservation Codes:	
City: Calera		State, Zip: AL, 35040		PO #:		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:	
Phone: 205-664-6121(Tel)		WO #:		Project #: 40007143		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Email: sgcopela@southernco.com		Project Name: CCR		SSOW#:		Special Instructions/Note:	
Site: Miller Ash Pond (1)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Field Filtered Sample (Yes or No)		Performance MS/MSD (Yes or No)		8316_Ra226_9320_Ra228_Ra228Ra228_GFPc		MW-9D MW-9S MW-7S MW-7S Dup (Sample Duplicate) MW-7D MW-10 MW-8S MW-8S Dup (Sample Duplicate) MW-8D MW-10 MW-2	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
AW18272		7/20/16		1540		G Water	
AW18387		7/20/16		1755		G Water	
AW18388		7/21/16		0925		G Water	
AW18389		7/21/16		0925		G Water	
AW18390		7/21/16		1040		G Water	
AW18704		7/25/16		1150		G Water	
AW18705		7/25/16		1330		G Water	
AW18706		7/25/16		1330		G Water	
AW18707		7/25/16		1450		G Water	
AW18708		7/25/16		1240		G Water	
AW18709		7/25/16		1415		G Water	
Possible Hazard Identification		Date		Time		Method of Shipment:	
<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		Date/Time: 08/04/2016; 0830		Company APC		Received by: [Signature]	
Deliverable Requested: I, II, III, IV, Other (specify)		Date/Time:		Company		Received by:	
Empty Kit Relinquished by:		Date/Time:		Company		Received by:	
Relinquished by: Sarah Copeland		Date/Time:		Company		Received by:	
Relinquished by:		Date/Time:		Company		Received by:	
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: 400-125411-1
SDG Number: Miller Ash Pond (1)

Login Number: 125411

List Number: 1

Creator: Siddoway, Benjamin

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	Thermal preservation not required.
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	

Certification Summary

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

TestAmerica Job ID: 400-125411-1
 SDG: Miller Ash Pond (1)

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 400-125411-1
SDG: Miller Ash Pond (1)

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - 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

 Alabama Power



Sample Group : WMWMILAP_1045

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1045

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>Chloride Batch ID</u>	<u>Fluoride Batch ID</u>	<u>Sulfate Batch ID</u>	<u>Project ID</u>
AW24623	577189	577191	577193	WMWMILAP_1045
AW24624	577189	577191	577193	WMWMILAP_1045
AW24625	577189	577191	577193	WMWMILAP_1045
AW24626	577189	577191	577193	WMWMILAP_1045
AW24627	577189	577191	577193	WMWMILAP_1045
AW24628	577189	577191	577193	WMWMILAP_1045
AW24629	577189	577191	577193	WMWMILAP_1045
AW24630	577189	577191	577193	WMWMILAP_1045
AW24631	577189	577191	577193	WMWMILAP_1045
AW24632	577189	577191	577193	WMWMILAP_1045
AW24633	577190	577192	577194	WMWMILAP_1045
AW24635	577190	577192	577194	WMWMILAP_1045
AW24636	577190	577192	577194	WMWMILAP_1045
AW24637	577190	577192	577194	WMWMILAP_1045
AW24638	577190	577192	577194	WMWMILAP_1045
AW24639	577190	577192	577194	WMWMILAP_1045
AW24640	577190	577192	577194	WMWMILAP_1045
AW24641	577190	577192	577194	WMWMILAP_1045
AW24642	577190	577192	577194	WMWMILAP_1045
AW24643	577190	577192	577194	WMWMILAP_1045
AW24644	577195	577196	577197	WMWMILAP_1045
AW24645	577195	577196	577197	WMWMILAP_1045
AW24646	577195	577196	577197	WMWMILAP_1045
AW24647	577195	577196	577197	WMWMILAP_1045
AW24648	577195	577196	577197	WMWMILAP_1045
AW24649	577195	577196	577197	WMWMILAP_1045
AW24650	577195	577196	577197	WMWMILAP_1045
AW24651	577195	577196	577197	WMWMILAP_1045
AW24652	577195	577196	577197	WMWMILAP_1045

4. All of the above samples were analyzed and prepared by EPA 300.0.
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 instrument performance check (IPC) was analyzed and all criteria were met.
- All laboratory reagent blanks were less than the method detection limits for the requested anions.
- All laboratory fortified blanks (LFB) were within acceptance criteria for the anions requested. No closing LFB was listed or run for the dilution re-analyses for sulfate for batches 577194 & 577197. Due to absence of a closing LFB, the reported results for the following sample dilutions for sulfate are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AW24633, AW24635, AW24637, AW24638, AW24639, AW24640, AW24642, AW24643, AW24646, AW24647, AW24648, AW24650, AW24651, & AW24652.
- No closing LFB was listed or run for the dilution re-analyses for chloride for batch 577190. Due to absence of closing LFB, the reported results for the following sample dilutions for chloride are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AW24639, AW24640, AW24642, & AW24643.
- 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 laboratory fortified matrix (LFM) sample was analyzed with each batch. All acceptance criteria for accuracy were met. It is noted that since the undiluted LFM for sulfate for batch 577193 exceeded the spike-added concentration by >4x (at 35x), the recovery for this sample was not applicable, and the diluted LFM sample was spiked at 10x normal concentration, with acceptable recovery. It is noted that the LFM for chloride & sulfate for batches 577190 & 577194, respectively, was diluted prior to spiking, and the diluted LFM sample was spiked at 20x normal concentration, with acceptable recovery.
- A sample duplicate and/or laboratory fortified matrix duplicate were analyzed with each batch. All acceptance criteria for precision were met. It is noted that separate and distinct criteria for duplicate precision calculations, based on sample and duplicate anion concentrations, are used to assess precision compliance. These are as follow: if the sample and duplicate are both greater than 5x anion Reporting Limit (RL) concentration, the precision is calculated and reported as relative percent difference (RPD), with an acceptance range of 0 - 20%; if either the sample or duplicate are less than 5x anion RL, the precision is calculated and reported as the absolute value of the difference between the two concentrations, with an acceptance range of less than or equal to the anion RL value.



7. Samples AW24632 & AW24639 was re-analyzed for chloride at a 10X dilution, samples AW24623, AW24625, AW24626, AW24640, AW24642, & AW24643 were re-analyzed for chloride at a 20X dilution, due to undiluted results exceeding the calibrated range of the detector. Samples AW24624, AW24627, AW24628, AW24629, AW24631, AW24632, AW24633, AW24639, AW24646, AW24647, & AW24651 were re-analyzed for sulfate at a 10x dilution, and samples AW24623, AW24625, AW24626, AW24635, AW24636, AW24637, AW24638, AW24640, AW24642, AW24643, AW24648, AW24650, & AW24652 were re-analyzed at a 20x dilution, due to undiluted results exceeding the calibrated range of the detector. The dilution results for sulfate for these samples should be used; reporting limit (RL) values are adjusted upward to reflect the dilution factor applied.

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AW24624	Sulfate	10X
AW24627	Sulfate	10X
AW24628	Sulfate	10X
AW24629	Sulfate	10X
AW24631	Sulfate	10X
AW24632	Chloride & Sulfate	10X
AW24633	Sulfate	10X
AW24639	Chloride & Sulfate	10X
AW24646	Sulfate	10X
AW24647	Sulfate	10X
AW24651	Sulfate	10X
AW24623	Chloride & Sulfate	20X
AW24625	Chloride & Sulfate	20X
AW24626	Chloride & Sulfate	20X
AW24635	Sulfate	20X
AW24636	Sulfate	20X
AW24637	Sulfate	20X
AW24638	Sulfate	20X
AW24640	Chloride & Sulfate	20X
AW24642	Chloride & Sulfate	20X
AW24643	Chloride & Sulfate	20X
AW24648	Sulfate	20X
AW24650	Sulfate	20X
AW24652	Sulfate	20X



8. The raw data results are shown with dilution factors included, when dilutions are manually performed by the analyst.
The raw data results are shown without dilution factor corrections, when dilutions are run automatically by the instrument.



Metals ICP

Miller Ash Pond

WMWMILAP_1045

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>
AW24634	20161013DISS	WMWMILAP_1045
AW24623	20161012C	WMWMILAP_1045
AW24624	20161012C	WMWMILAP_1045
AW24625	20161012C	WMWMILAP_1045
AW24626	20161012C	WMWMILAP_1045
AW24627	20161012C	WMWMILAP_1045
AW24628	20161012C	WMWMILAP_1045
AW24629	20161012C	WMWMILAP_1045
AW24630	20161012C	WMWMILAP_1045
AW24631	20161012D_20161013_20161013D	WMWMILAP_1045
AW24632	20161012D_20161013_20161013D	WMWMILAP_1045
AW24633	20161012D_20161013_20161013D	WMWMILAP_1045
AW24635	20161012D_20161013_20161013D	WMWMILAP_1045
AW24636	20161012D_20161013_20161013D	WMWMILAP_1045
AW24637	20161012D_20161013_20161013D	WMWMILAP_1045
AW24638	20161012D_20161013_20161013D	WMWMILAP_1045
AW24639	20161012D_20161013_20161013D	WMWMILAP_1045
AW24640	20161012D_20161013_20161013D	WMWMILAP_1045
AW24641	20161012D_20161013_20161013D	WMWMILAP_1045
AW24642	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24643	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24644	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24645	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24646	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24647	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24648	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24649	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24650	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24651	20161012E_20161013A_20161013E	WMWMILAP_1045
AW24652	20161012E2_20161013B_20161013F	WMWMILAP_1045



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

General Quality Control Procedures:

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

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AW24634

The concentrations of these analytes in the sample were greater than 3.3X the concentration of the matrix spike added during digestion, 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 without a dilution with the following exceptions: The following samples were diluted due to sample concentrations from the undiluted analysis were over the high standard of the calibration curve. For this Batch the undiluted dilution factor was 1.0. The following samples were diluted 1: 10 by adding 9mL of water to 1mL of the undiluted digested sample for a total volume of 10 mL. This gave a dilution factor of 10x.

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AW24634	Calcium	10X
AW24634MS	Calcium	10X
AW24634MSD	Calcium	10X
AW24623	Calcium	10X
AW24625	Calcium	10X
AW24626	Calcium	10X
AW24627	Calcium	10X
AW24628	Calcium	10X
AW24629	Calcium	10X
AW24631	Calcium	10X
AW24632	Calcium	10X
AW24633	Calcium	10X
AW24635	Calcium	10X
AW24637	Calcium	10X
AW24638	Calcium	10X
AW24639	Calcium	10X
AW24640	Calcium	10X
AW24642	Calcium	10X
AW24643	Calcium	10X
AW24647	Calcium	10X
AW24648	Calcium	10X
AW24650	Calcium	10X
AW24651	Calcium	10X
AW24651MS	Calcium	10X
AW24651MSD	Calcium	10X
AW24652	Calcium	10X

8. The raw data results include both results corrected for dilution and results not corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1045

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AW24623	577982	WMWMILAP_1045
AW24624	577982	WMWMILAP_1045
AW24625	577982	WMWMILAP_1045
AW24626	577982	WMWMILAP_1045
AW24627	577982	WMWMILAP_1045
AW24628	577982	WMWMILAP_1045
AW24629	577982	WMWMILAP_1045
AW24630	577982	WMWMILAP_1045
AW24631	577982	WMWMILAP_1045
AW24632	578665	WMWMILAP_1045
AW24633	578665	WMWMILAP_1045
AW24635	578665	WMWMILAP_1045
AW24636	578665	WMWMILAP_1045
AW24637	578665	WMWMILAP_1045
AW24638	578665	WMWMILAP_1045
AW24639	578665	WMWMILAP_1045
AW24640	578665	WMWMILAP_1045
AW24641	578665	WMWMILAP_1045
AW24642	578665	WMWMILAP_1045
AW24634	578564	WMWMILAP_1045
AW24643	578666	WMWMILAP_1045
AW24644	578666	WMWMILAP_1045
AW24645	578666	WMWMILAP_1045
AW24646	578666	WMWMILAP_1045
AW24647	578666	WMWMILAP_1045
AW24648	578666	WMWMILAP_1045
AW24649	578666	WMWMILAP_1045
AW24650	578666	WMWMILAP_1045
AW24651	578666	WMWMILAP_1045
AW24652	578666	WMWMILAP_1045



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.
7. Cadmium MDL increased from 0.0001 mg/L to 0.0002 mg/L. Samples affected include AW24643 & AW24650, which are both reported as Not Detected.

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, with the exception of batch 578564 which is a dissolved sample, therefore does not get digested.
- 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.
8. All samples were analyzed at a dilution of 1 to 5 to compensate for any matrix effects.
 9. The raw data results are shown with dilution factors included.



Mercury

Miller Ash Pond

WMWMILAP_1045

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AW24634	578314	WMWMILAP_1045
AW24623	578315	WMWMILAP_1045
AW24624	578315	WMWMILAP_1045
AW24625	578315	WMWMILAP_1045
AW24626	578316	WMWMILAP_1045
AW24627	578316	WMWMILAP_1045
AW24628	578316	WMWMILAP_1045
AW24629	578316	WMWMILAP_1045
AW24630	578316	WMWMILAP_1045
AW24631	578316	WMWMILAP_1045
AW24632	578316	WMWMILAP_1045
AW24633	578316	WMWMILAP_1045
AW24635	578316	WMWMILAP_1045
AW24636	578316	WMWMILAP_1045
AW24637	578317	WMWMILAP_1045
AW24638	578317	WMWMILAP_1045
AW24639	578317	WMWMILAP_1045
AW24640	578317	WMWMILAP_1045
AW24641	578317	WMWMILAP_1045
AW24642	578317	WMWMILAP_1045
AW24643	578317	WMWMILAP_1045
AW24644	578317	WMWMILAP_1045
AW24645	578317	WMWMILAP_1045
AW24646	578317	WMWMILAP_1045
AW24647	578499	WMWMILAP_1045
AW24648	578499	WMWMILAP_1045
AW24649	578499	WMWMILAP_1045
AW24650	578499	WMWMILAP_1045
AW24651	578499	WMWMILAP_1045
AW24652	578499	WMWMILAP_1045

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

Miller Ash Pond

WMWMILAP_1045

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>
AW24623	577175	WMWMILAP_1045
AW24624	577175	WMWMILAP_1045
AW24625	577175	WMWMILAP_1045
AW24626	577175	WMWMILAP_1045
AW24627	577175	WMWMILAP_1045
AW24628	577175	WMWMILAP_1045
AW24629	577175	WMWMILAP_1045
AW24630	577175	WMWMILAP_1045
AW24631	577175	WMWMILAP_1045
AW24632	577175	WMWMILAP_1045
AW24633	577177	WMWMILAP_1045
AW24635	577177	WMWMILAP_1045
AW24636	577177	WMWMILAP_1045
AW24637	577177	WMWMILAP_1045
AW24638	577177	WMWMILAP_1045
AW24639	577177	WMWMILAP_1045
AW24642	577177	WMWMILAP_1045
AW24643	577177	WMWMILAP_1045
AW24644	577177	WMWMILAP_1045
AW24645	577177	WMWMILAP_1045
AW24640	577230	WMWMILAP_1045
AW24641	577230	WMWMILAP_1045
AW24646	577230	WMWMILAP_1045
AW24647	577230	WMWMILAP_1045
AW24648	577230	WMWMILAP_1045
AW24649	577230	WMWMILAP_1045
AW24650	577230	WMWMILAP_1045
AW24651	577230	WMWMILAP_1045
AW24652	577230	WMWMILAP_1045



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.
7. TDS reporting limit was incorrectly listed as 2.5 mg/L. Sample ID AW24636 is now reported as Not Detected.

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 0.5 mg 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 2.5 mg and 200 mg residue with the exception of AW24630, AW24636, & AW24649 which are <2.5.

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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW24623

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	0.0106	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0222	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.540	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		10	1.0	5.0	269	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	J 0.00839	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.120	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0226	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1480	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		20	0.80	5.00	50.6	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.213	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	814	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW24623

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24625	Mercury, Total by CVAA	mg/L	0.0000818	0.0005	0.004	0.00361	0.00365	0.00378	0.0034 to 0.0046	90.3	70 to 130	0.961	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW24623

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW24624

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	J 0.00246	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0616	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.179	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	4.28	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.149	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0341	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		50	594	mg/L
* Chloride, Total	SES	9/29/2016	EPA 300.0		1	0.04	0.25	23.6	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.192	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	105	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW24624

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24625	Mercury, Total by CVAA	mg/L	0.0000818	0.0005	0.004	0.00361	0.00365	0.00378	0.0034 to 0.0046	90.3	70 to 130	0.961	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	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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* 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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW24624

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW24625

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0139	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.514	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		10	1.0	5.0	320	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	J 0.000210	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0401	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.0988	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	J 0.00230	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1540	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		20	0.80	5.00	47.1	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.209	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	958	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW24625

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20
AW24625	Mercury, Total by CVAA	mg/L	0.0000818	0.0005	0.004	0.00361	0.00365	0.00378	0.0034 to 0.0046	90.3	70 to 130	0.961	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW24625

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW24626

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Radiological										
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1				Attached	
Metals, Cyanide, Total Phenols										
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U	Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U	Not Detected	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010		0.0133	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U	Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1		0.513	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		10	1.0	5.0		317	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	J	0.000212	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010		0.0401	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U	Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05		0.0979	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U	Not Detected	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U	Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	J	0.00224	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100		1560	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		20	0.80	5.00		46.9	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J	0.213	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20		957	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW24626

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW24626

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121		24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86		0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Solids, Dissolved	mg/L	0.00	25				876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753		539	19.5	18 to 22	106	80 to 120	0.185	20

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Expiration: June 30, 2017

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CC:

Reported: 6/7/2017
 Version: 2.0

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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW24627

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	J 0.00193	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0294	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.711	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		10	1.0	5.0	109	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.115	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0133	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		50	778	mg/L
* Chloride, Total	SES	9/29/2016	EPA 300.0		1	0.04	0.25	22.1	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.068	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	347	mg/L

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Batch QC Summary



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW24627

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW24627

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW24628

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	J 0.00249	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0355	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.669	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		10	1.0	5.0	79.1	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.146	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0290	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		50	612	mg/L
* Chloride, Total	SES	9/29/2016	EPA 300.0		1	0.04	0.25	20.7	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.138	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	258	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW24628

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW24628

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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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**

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW24629

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	J 0.000620	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0245	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	1.55	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		10	1.0	5.0	71.1	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	J 0.0369	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0485	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	828	mg/L
* Chloride, Total	SES	9/29/2016	EPA 300.0		1	0.04	0.25	8.74	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	0.375	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	446	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW24629

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW24629

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24630

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	J 0.00621	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	9/29/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	9/29/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24630

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20	
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20	
AW24630	Calcium, Total	mg/L	-0.0305	0.22	5.00	4.74	4.56	4.83	4.25 to 5.75	94.8	70 to 130	3.87	20	
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20	
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20	
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20	
AW24631	Cobalt, Total	mg/L	-0.000000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20	
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20	
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20	
AW24630	Lithium, Total	mg/L	0.000200	0.022	0.20	0.200	0.202	0.203	0.17 to 0.23	99.9	70 to 130	0.995	20	
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20	
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20	
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20	
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20	
AW24630	Boron, Total	mg/L	0.00129	0.044	1.00	0.921	0.921	0.928	0.85 to 1.15	92.1	70 to 130	0.00	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24630

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW24631

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	J 0.00144	mg/L
* Barium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0478	mg/L
* Beryllium, Total	TAS	10/7/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	1.03	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	52.4	mg/L
* Cadmium, Total	TAS	10/7/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	J 0.00389	mg/L
* Chromium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	J 0.0356	mg/L
* Molybdenum, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	0.0242	mg/L
* Lead, Total	TAS	10/7/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/7/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/7/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		50	698	mg/L
* Chloride, Total	SES	9/29/2016	EPA 300.0		1	0.04	0.25	8.42	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.225	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	368	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW24631

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24631	Molybdenum, Total	mg/L	0.00000613	0.0044	0.10	0.125	0.129	0.0993	0.085 to 0.115	101	70 to 130	3.19	20
AW24631	Selenium, Total	mg/L	0.000129	0.0044	0.10	0.0909	0.0932	0.0983	0.085 to 0.115	90.9	70 to 130	2.53	20
AW24631	Chromium, Total	mg/L	0.0000222	0.0044	0.10	0.0945	0.0982	0.0941	0.085 to 0.115	94.5	70 to 130	3.85	20
AW24631	Cobalt, Total	mg/L	-0.00000125	0.0044	0.10	0.102	0.105	0.103	0.085 to 0.115	98.2	70 to 130	2.36	20
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20
AW24631	Beryllium, Total	mg/L	0.00000470	0.00132	0.10	0.0979	0.100	0.105	0.085 to 0.115	97.9	70 to 130	2.35	20
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20
AW24631	Cadmium, Total	mg/L	0.00000137	0.00044	0.10	0.0889	0.0913	0.0909	0.085 to 0.115	88.9	70 to 130	2.57	20
AW24631	Thallium, Total	mg/L	0.00000731	0.00044	0.10	0.0991	0.102	0.0963	0.085 to 0.115	99.1	70 to 130	2.88	20
AW24631	Arsenic, Total	mg/L	0.0000139	0.0022	0.10	0.0956	0.0989	0.0964	0.085 to 0.115	94.2	70 to 130	3.38	20
AW24631	Lead, Total	mg/L	0.00000952	0.0022	0.10	0.0961	0.0988	0.0980	0.085 to 0.115	96.1	70 to 130	2.84	20
AW24631	Antimony, Total	mg/L	0.000125	0.00132	0.10	0.0969	0.101	0.0964	0.085 to 0.115	96.9	70 to 130	3.73	20
AW24631	Barium, Total	mg/L	-0.0000151	0.0044	0.10	0.135	0.137	0.0879	0.085 to 0.115	87.1	70 to 130	1.34	20
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW24631

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW24632

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0261	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.807	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	141	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0673	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.0812	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	J 0.00623	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	884	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		10	0.40	2.50	24.9	mg/L
* Fluoride, Total	SES	9/29/2016	EPA 300.0		1	0.01	0.3	J 0.054	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	540	mg/L

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW24632

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24641 Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20	
AW24642 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20	
AW24642 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20	
AW24641 Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20	
AW24642 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20	
AW24642 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20	
AW24642 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20	
AW24642 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20	
AW24642 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20	
AW24642 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20	
AW24642 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20	
AW24642 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20	
AW24642 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20	
AW24636 Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20	
AW24641 Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW24632

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		Prec
AW24632	Chloride, Total	mg/L	0.000	0.25	100.	121	24.8	9.83	9 to 11	96.1	80 to 120	0.402	20
AW24632	Fluoride, Total	mg/L	0.000	0.3	2.00	1.86	0.056	1.88	1.8 to 2.2	90.3	80 to 120	3.64	20
AW24632	Solids, Dissolved	mg/L	0.00	25			876	40.0	40 to 60			0.455	5
AW24632	Sulfate, Total	mg/L	-0.247	1.0	200	753	539	19.5	18 to 22	106	80 to 120	0.185	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW24633

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	J 0.00317	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0410	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	J 0.0625	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	122	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0166	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.134	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0105	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	852	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	13.3	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.061	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	480	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW24633

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20
AW24642	Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20
AW24642	Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20
AW24642	Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20
AW24642	Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20
AW24642	Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20
AW24642	Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20
AW24642	Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20
AW24642	Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20
AW24642	Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20
AW24642	Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20
AW24642	Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW24633

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5

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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-1 Diss

Laboratory ID Number: AW24634

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00239	mg/L
* Barium, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0020	0.010	0.0356	mg/L
* Beryllium, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Dissolved	HRG	10/13/2016	EPA 200.7		1	0.02	0.1	J 0.0746	mg/L
* Calcium, Dissolved	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	93.3	mg/L
* Cadmium, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Antimony, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Cobalt, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Dissolved by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Dissolved	HRG	10/13/2016	EPA 200.7		1	0.01	0.05	0.137	mg/L
* Molybdenum, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0020	0.010	0.0111	mg/L
* Lead, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Dissolved	TAS	10/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Ca is out of range.
 Spike amount is less than 30% sample amount,
 therefore will not be qualified. SGC 12/7/16
 REVISED COPY:Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Revised Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-1 Diss

Laboratory ID Number: AW24634

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AW24634	Antimony, Dissolved	mg/L	0.0000247	0.00132	0.10	0.0839	0.0892		83.9	70 to 130	6.16	20	
AW24634	Beryllium, Dissolved	mg/L	0.00000918	0.00132	0.10	0.0800	0.0862		80.0	70 to 130	7.43	20	
AW24634	Cobalt, Dissolved	mg/L	-0.000000197	0.0044	0.10	0.0783	0.0837		78.3	70 to 130	6.71	20	
AW24634	Lithium, Dissolved	mg/L	0.0000242	0.022	0.20	0.349	0.352	0.190	0.17 to 0.23	106	70 to 130	0.856	20
AW24634	Molybdenum, Dissolved	mg/L	0.00000593	0.0044	0.10	0.0949	0.101		83.8	70 to 130	6.32	20	
AW24634	Thallium, Dissolved	mg/L	0.00000454	0.00044	0.10	0.0874	0.0939		87.4	70 to 130	7.16	20	
AW24634	Arsenic, Dissolved	mg/L	0.00000428	0.0022	0.10	0.0880	0.0919		85.6	70 to 130	4.36	20	
AW24634	Cadmium, Dissolved	mg/L	0.00000107	0.00044	0.10	0.0738	0.0784		73.8	70 to 130	6.08	20	
AW24634	Barium, Dissolved	mg/L	0.00000340	0.0044	0.10	0.121	0.129		85.1	70 to 130	6.52	20	
AW24634	Calcium, Dissolved	mg/L	-0.0337	0.22	5.00	102	103	4.51	4.25 to 5.75	182	70 to 130	0.976	20
AW24634	Chromium, Dissolved	mg/L	0.00000498	0.0044	0.10	0.0785	0.0827		78.5	70 to 130	5.22	20	
AW24634	Lead, Dissolved	mg/L	0.00000440	0.0022	0.10	0.0843	0.0904		84.3	70 to 130	7.00	20	
AW24078	Mercury, Dissolved by CVAA	mg/L	0.0000767	0.0005	0.004	0.00363	0.00363	0.00368	0.0034 to 0.0046	90.8	70 to 130	0.0551	20
AW24634	Boron, Dissolved	mg/L	-0.00462	0.044	1.00	1.04	1.06	0.932	0.85 to 1.15	96.7	70 to 130	1.90	20
AW24634	Selenium, Dissolved	mg/L	0.0000203	0.0044	0.10	0.0785	0.0773		78.5	70 to 130	1.56	20	

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Spike amount is less than 30% sample amount,
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 REVISED COPY: Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-1 Diss

Laboratory ID Number: AW24634

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

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW24635

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0398	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	J 0.0253	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	164	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.108	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1170	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	7.94	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.097	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	612	mg/L

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 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW24635

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AW24642	Molybdenum, Total	mg/L	0.0000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20	
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20	
AW24642	Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20	
AW24636	Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20	
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20	
AW24642	Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20	
AW24642	Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20	
AW24642	Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20	
AW24642	Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20	
AW24642	Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20	
AW24642	Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20	
AW24642	Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20	
AW24642	Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20	
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20	
AW24642	Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20	

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 John Pugh

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 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW24635

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24636

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected to 25 mg/L. The result for TDS has been correctly changed to Not Detected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24636

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24641 Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20	
AW24642 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20	
AW24642 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20	
AW24642 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20	
AW24642 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20	
AW24642 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20	
AW24642 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20	
AW24642 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20	
AW24642 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20	
AW24642 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20	
AW24642 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20	
AW24636 Mercury, Total by CVAA	mg/L	0.0000718	0.0005	0.004	0.00383	0.00392	0.00388	0.0034 to 0.0046	95.7	70 to 130	2.24	20	
AW24641 Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20	
AW24641 Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20	
AW24642 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20	

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24636

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		Prec
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Reported: 6/7/2017
 Version: 2.0

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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW24637

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	J 0.00246	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0131	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	3.18	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	127	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	J 0.00263	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.171	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0985	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1310	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	6.30	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	0.336	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	714	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW24637

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20
AW24642	Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20
AW24642	Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20
AW24642	Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20
AW24642	Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20
AW24646	Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20
AW24642	Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20
AW24642	Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20
AW24642	Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20
AW24642	Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20
AW24642	Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20
AW24642	Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20
AW24642	Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW24637

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-10 Dup

Laboratory ID Number: AW24638

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	J 0.00245	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0132	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	3.20	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	129	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	J 0.00258	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.169	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0970	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1380	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	6.30	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	0.337	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	732	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-10 Dup

Laboratory ID Number: AW24638

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AW24642	Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20
AW24642	Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20
AW24642	Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20
AW24642	Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20
AW24642	Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20
AW24642	Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20
AW24642	Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20
AW24642	Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20
AW24642	Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20
AW24642	Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20
AW24642	Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20
AW24646	Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-10 Dup

Laboratory ID Number: AW24638

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW24639

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	0.00629	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0644	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.454	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	246.4	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.158	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	J 0.00843	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1000	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		10	0.40	2.50	31.1	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	0.799	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	422	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW24639

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20
AW24642	Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20
AW24642	Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20
AW24642	Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20
AW24642	Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20
AW24642	Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20
AW24642	Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20
AW24642	Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20
AW24642	Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20
AW24642	Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20
AW24646	Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20
AW24642	Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20
AW24642	Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW24639

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20

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CC:

Reported: 6/7/2017
 Version: 2.0

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

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW24640

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	0.00955	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0153	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.857	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	324	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.223	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0638	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1600	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		20	0.80	5.00	40.9	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.224	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	1020	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW24640

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24642 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20	
AW24641 Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20	
AW24641 Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20	
AW24642 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20	
AW24641 Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20	
AW24642 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20	
AW24642 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20	
AW24642 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20	
AW24646 Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20	
AW24642 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20	
AW24642 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20	
AW24642 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20	
AW24642 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20	
AW24642 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20	
AW24642 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW24640

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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**

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW24641

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW24641

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24642	Molybdenum, Total	mg/L	0.0000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20
AW24641	Boron, Total	mg/L	-0.00513	0.044	1.00	0.927	0.924	0.903	0.85 to 1.15	92.7	70 to 130	0.324	20
AW24641	Lithium, Total	mg/L	0.000287	0.022	0.20	0.200	0.193	0.199	0.17 to 0.23	100	70 to 130	3.56	20
AW24642	Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20
AW24642	Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20
AW24642	Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20
AW24646	Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20
AW24641	Calcium, Total	mg/L	-0.0331	0.22	5.00	4.80	4.65	4.72	4.25 to 5.75	96.0	70 to 130	3.17	20
AW24642	Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20
AW24642	Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20
AW24642	Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20
AW24642	Lead, Total	mg/L	0.00000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20
AW24642	Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20
AW24642	Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20
AW24642	Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW24641

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW24642

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0367	mg/L
* Beryllium, Total	TAS	10/17/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	2.86	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	189	mg/L
* Cadmium, Total	TAS	10/17/2016	EPA 200.8		5	0.0002	0.0010	J 0.000208	mg/L
* Cobalt, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	0.0389	mg/L
* Chromium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.0636	mg/L
* Molybdenum, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	J 0.00799	mg/L
* Lead, Total	TAS	10/17/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/17/2016	EPA 200.8		5	0.0020	0.010	J 0.00341	mg/L
* Thallium, Total	TAS	10/17/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1140	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		20	0.80	5.00	29.2	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.158	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	707	mg/L

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW24642

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24642 Cadmium, Total	mg/L	0.0000106	0.00044	0.10	0.0983	0.0969	0.0977	0.085 to 0.115	98.1	70 to 130	1.37	20	
AW24642 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0917	0.0900	0.0952	0.085 to 0.115	88.3	70 to 130	1.86	20	
AW24642 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.134	0.130	0.0928	0.085 to 0.115	97.1	70 to 130	3.03	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24642 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0881	0.0855	0.0876	0.085 to 0.115	88.1	70 to 130	2.90	20	
AW24642 Chromium, Total	mg/L	0.0000328	0.0044	0.10	0.0898	0.0876	0.0891	0.085 to 0.115	89.8	70 to 130	2.48	20	
AW24642 Lead, Total	mg/L	0.0000508	0.0022	0.10	0.100	0.100	0.0987	0.085 to 0.115	100	70 to 130	0.223	20	
AW24642 Thallium, Total	mg/L	0.0000612	0.00044	0.10	0.101	0.101	0.0980	0.085 to 0.115	101	70 to 130	0.0330	20	
AW24642 Beryllium, Total	mg/L	0.0000861	0.00132	0.10	0.0901	0.0906	0.100	0.085 to 0.115	90.1	70 to 130	0.511	20	
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24642 Molybdenum, Total	mg/L	0.0000752	0.0044	0.10	0.102	0.0992	0.0952	0.085 to 0.115	94.3	70 to 130	2.97	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24642 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0901	0.0876	0.0878	0.085 to 0.115	90.1	70 to 130	2.78	20	
AW24642 Cobalt, Total	mg/L	-0.00000514	0.0044	0.10	0.135	0.132	0.0978	0.085 to 0.115	95.7	70 to 130	1.58	20	
AW24646 Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW24642

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24643	Fluoride, Total	mg/L	0.000	0.3		2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24645	Solids, Dissolved	mg/L	0.00	25				209	40.0	40 to 60			0.476	5
AW24643	Chloride, Total	mg/L	0.000	0.25		200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0		400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20

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Expiration: June 30, 2017

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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**

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AW24643

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Radiological										
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1				Attached	
Metals, Cyanide, Total Phenols										
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	J	0.000638	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U	Not Detected	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010		0.0400	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U	Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1		2.86	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0		192	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U	Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010		0.0359	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U	Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05		0.0635	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	J	0.00850	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U	Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	J	0.00327	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100		1120	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		20	0.80	5.00		29.0	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J	0.163	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20		701	mg/L

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AW24643

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW24646 Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AW24643

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24643	Fluoride, Total	mg/L	0.000	0.3	2.00	2.03	0.166	1.89	1.8 to 2.2	93.4	80 to 120	1.82	20
AW24643	Sulfate, Total	mg/L	-0.231	1.0	400	1140	709	19.4	18 to 22	110	80 to 120	1.13	20
AW24643	Chloride, Total	mg/L	0.000	0.25	200	227	29.3	9.84	9 to 11	99.0	80 to 120	1.03	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW24644

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.131	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.175	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	37.5	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	J 0.0206	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	259	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	17.1	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.069	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		1	0.3	1	74.7	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW24644

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW24646 Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW24644

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW24645

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0926	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.135	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	29.3	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	J 0.0212	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	211	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	6.48	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.124	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		1	0.3	1	42.2	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW24645

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	
AW24646 Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046	92.5	70 to 130	0.160	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 26-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW24645

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24645	Solids, Dissolved	mg/L	0.00	25			209	40.0	40 to 60			0.476	5
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW24646

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	J 0.00306	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0252	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	J 0.0837	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	14.3	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0211	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/11/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.0801	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	306	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	7.85	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.058	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	116	mg/L

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 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW24646

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115		99.9	70 to 130	0.464	20
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115		88.2	70 to 130	0.507	20
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15		93.6	70 to 130	0.00	20
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23		104	70 to 130	0.717	20
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115		99.3	70 to 130	0.0790	20
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115		88.1	70 to 130	0.351	20
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115		85.1	70 to 130	0.508	20
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115		94.2	70 to 130	0.277	20
AW24646 Mercury, Total by CVAA	mg/L	0.0000732	0.0005	0.004	0.00370	0.00370	0.00380	0.0034 to 0.0046		92.5	70 to 130	0.160	20
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115		107	70 to 130	1.61	20
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115		93.0	70 to 130	1.02	20
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115		96.0	70 to 130	0.587	20
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75		100	70 to 130	0.151	20
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115		98.0	70 to 130	0.736	20
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115		102	70 to 130	0.828	20

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Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW24646

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
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CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW24647

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	J 0.00241	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0955	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	J 0.0979	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	66.5	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	J 0.00210	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/13/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	J 0.0434	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		50	446	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	13.8	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.076	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	115	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW24647

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW25478 Mercury, Total by CVAA	mg/L	0.0000596	0.0005	0.004	0.00386	0.00380	0.00388	0.0034 to 0.0046	96.6	70 to 130	1.71	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW24647

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW24648

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	J 0.000757	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	J 0.00187	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0273	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	2.14	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	165	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/13/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.198	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0362	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		125	1560	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	8.37	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	0.597	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	841	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW24648

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115		99.9	70 to 130	0.464	20
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15		93.6	70 to 130	0.00	20
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115		85.1	70 to 130	0.508	20
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115		94.2	70 to 130	0.277	20
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23		104	70 to 130	0.717	20
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115		99.3	70 to 130	0.0790	20
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115		88.1	70 to 130	0.351	20
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75		100	70 to 130	0.151	20
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115		98.0	70 to 130	0.736	20
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115		102	70 to 130	0.828	20
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115		88.2	70 to 130	0.507	20
AW25478 Mercury, Total by CVAA	mg/L	0.0000596	0.0005	0.004	0.00386	0.00380	0.00388	0.0034 to 0.0046		96.6	70 to 130	1.71	20
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115		107	70 to 130	1.61	20
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115		93.0	70 to 130	1.02	20
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115		96.0	70 to 130	0.587	20

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW24648

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20

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CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24649

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	10/12/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/13/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24649

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW25478 Mercury, Total by CVAA	mg/L	0.0000596	0.0005	0.004	0.00386	0.00380	0.00388	0.0034 to 0.0046	96.6	70 to 130	1.71	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW24649

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		Prec
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW24650

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0175	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.282	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.0	5.0	79.9	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	J 0.00686	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/13/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.167	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		100	1120	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	9.44	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.086	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		20	6.0	20	674	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW24650

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115		99.9	70 to 130	0.464	20
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15		93.6	70 to 130	0.00	20
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115		85.1	70 to 130	0.508	20
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115		94.2	70 to 130	0.277	20
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115		107	70 to 130	1.61	20
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115		93.0	70 to 130	1.02	20
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115		96.0	70 to 130	0.587	20
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115		88.2	70 to 130	0.507	20
AW25478 Mercury, Total by CVAA	mg/L	0.0000596	0.0005	0.004	0.00386	0.00380	0.00388	0.0034 to 0.0046		96.6	70 to 130	1.71	20
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75		100	70 to 130	0.151	20
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115		98.0	70 to 130	0.736	20
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115		102	70 to 130	0.828	20
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23		104	70 to 130	0.717	20
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115		99.3	70 to 130	0.0790	20
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115		88.1	70 to 130	0.351	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 27-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW24650

Sample	Analysis	Units	MB			Sample		LFB	Rec			Prec	
			MB	Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. The result for Cd has been correctly changed to Not Detected. SGC 3/20/17

CC:

Reported: 6/7/2017
 Version: 2.0

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW24651

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	J 0.00176	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0141	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7		1	0.02	0.1	0.641	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7		10	1.00	5.0	61.2	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	0.0155	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/13/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7		1	0.01	0.05	0.0709	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C		1		50	780	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0		1	0.04	0.25	8.99	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0		1	0.01	0.3	J 0.100	mg/L
* Sulfate, Total	SES	9/30/2016	EPA 300.0		10	3.0	10	474	mg/L

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Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17



Corrected Copy

To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW24651

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW24651 Boron, Total	mg/L	0.0100	0.044	1.00	1.58	1.58	0.916	0.85 to 1.15	93.6	70 to 130	0.00	20	
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW25478 Mercury, Total by CVAA	mg/L	0.0000596	0.0005	0.004	0.00386	0.00380	0.00388	0.0034 to 0.0046	96.6	70 to 130	1.71	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW24651 Lithium, Total	mg/L	0.000373	0.022	0.20	0.278	0.280	0.199	0.17 to 0.23	104	70 to 130	0.717	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24651 Calcium, Total	mg/L	-0.0342	0.22	5.00	66.2	66.1	4.72	4.25 to 5.75	100	70 to 130	0.151	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	

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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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW24651

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec Limit	Prec	Limit	
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84	0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5	4.01	9.84	9 to 11	95.0	80 to 120	0.250	20
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130	1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Solids, Dissolved	mg/L	3.00	25			2430	55.0	40 to 60			0.310	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMLAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW24652

Name	Analyst	Test Date	Reference	Vio	Spec	DF	MDL	RL	Q	Results	Units
Radiological											
Total Radium, Test America	SGC	12/8/2016	EPA 9315/9320			1				Attached	
Metals, Cyanide, Total Phenols											
* Antimony, Total	TAS	10/18/2016	EPA 200.8			5	0.00060	0.0030	U	Not Detected	mg/L
* Arsenic, Total	TAS	10/18/2016	EPA 200.8			5	0.0010	0.005	J	0.00163	mg/L
* Barium, Total	TAS	10/18/2016	EPA 200.8			5	0.0020	0.010		0.0246	mg/L
* Beryllium, Total	TAS	10/18/2016	EPA 200.8			5	0.00060	0.0030	U	Not Detected	mg/L
* Boron, Total	HRG	10/12/2016	EPA 200.7			1	0.02	0.1		0.126	mg/L
* Calcium, Total	HRG	10/13/2016	EPA 200.7			10	1.0	5.0		240	mg/L
* Cadmium, Total	TAS	10/18/2016	EPA 200.8			5	0.0002	0.0010	J	0.000219	mg/L
* Cobalt, Total	TAS	10/18/2016	EPA 200.8			5	0.0020	0.010		0.108	mg/L
* Chromium, Total	TAS	10/18/2016	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Mercury, Total by CVAA	MCW	10/13/2016	EPA 245.1			1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	10/12/2016	EPA 200.7			1	0.01	0.05		0.197	mg/L
* Molybdenum, Total	TAS	10/18/2016	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Lead, Total	TAS	10/18/2016	EPA 200.8			5	0.0010	0.005	U	Not Detected	mg/L
* Selenium, Total	TAS	10/18/2016	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Thallium, Total	TAS	10/18/2016	EPA 200.8			5	0.00020	0.0010	J	0.000214	mg/L
General Characteristics											
* Solids, Dissolved	DLJ	10/3/2016	SM 2540C			1		125		2420	mg/L
* Chloride, Total	SES	9/30/2016	EPA 300.0			1	0.04	0.25		4.00	mg/L
* Fluoride, Total	SES	9/30/2016	EPA 300.0			1	0.01	0.3	J	0.035	mg/L
* Sulfate, Total	SES	10/3/2016	EPA 300.0			20	6.0	20		1680	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW24652

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW24652 Chromium, Total	mg/L	0.00000328	0.0044	0.10	0.0999	0.100	0.0891	0.085 to 0.115	99.9	70 to 130	0.464	20	
AW25483 Lithium, Total	mg/L	0.000509	0.022	0.20	0.322	0.325	0.196	0.17 to 0.23	113	70 to 130	0.927	20	
AW24652 Beryllium, Total	mg/L	0.00000861	0.00132	0.10	0.0882	0.0878	0.100	0.085 to 0.115	88.2	70 to 130	0.507	20	
AW25478 Mercury, Total by CVAA	mg/L	0.0000596	0.0005	0.004	0.00386	0.00380	0.00388	0.0034 to 0.0046	96.6	70 to 130	1.71	20	
AW24652 Antimony, Total	mg/L	0.000107	0.00132	0.10	0.0980	0.0972	0.0878	0.085 to 0.115	98.0	70 to 130	0.736	20	
AW24652 Molybdenum, Total	mg/L	0.00000752	0.0044	0.10	0.102	0.103	0.0952	0.085 to 0.115	102	70 to 130	0.828	20	
AW24652 Barium, Total	mg/L	-0.0000115	0.0044	0.10	0.132	0.129	0.0928	0.085 to 0.115	107	70 to 130	1.61	20	
AW24652 Lead, Total	mg/L	0.00000508	0.0022	0.10	0.0930	0.0939	0.0987	0.085 to 0.115	93.0	70 to 130	1.02	20	
AW24652 Thallium, Total	mg/L	0.00000612	0.00044	0.10	0.0962	0.0968	0.0980	0.085 to 0.115	96.0	70 to 130	0.587	20	
AW24652 Arsenic, Total	mg/L	0.0000134	0.0022	0.10	0.0868	0.0863	0.0876	0.085 to 0.115	85.1	70 to 130	0.508	20	
AW24652 Cobalt, Total	mg/L	-0.000000514	0.0044	0.10	0.202	0.203	0.0978	0.085 to 0.115	94.2	70 to 130	0.277	20	
AW25483 Boron, Total	mg/L	0.00777	0.044	1.00	0.992	1.00	0.917	0.85 to 1.15	95.2	70 to 130	0.803	20	
AW24652 Cadmium, Total	mg/L	0.00000106	0.00044	0.10	0.0995	0.0995	0.0977	0.085 to 0.115	99.3	70 to 130	0.0790	20	
AW24652 Selenium, Total	mg/L	0.0000881	0.0044	0.10	0.0881	0.0884	0.0952	0.085 to 0.115	88.1	70 to 130	0.351	20	
AW25483 Calcium, Total	mg/L	-0.0333	0.22	5.00	250	244	4.65	4.25 to 5.75	144	70 to 130	2.43	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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* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report

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 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

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



Corrected Copy



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 28-Sep-16
 Customer ID:
 Delivery Date: 28-Sep-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW24652

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW24652	Solids, Dissolved	mg/L	3.00	25				2430	55.0	40 to 60			0.310	5
AW24652	Sulfate, Total	mg/L	-0.167	1.0	400	2130		1640	19.9	18 to 22	112	80 to 120	2.41	20
AW24652	Fluoride, Total	mg/L	0.000	0.3	2.00	1.84		0.035	1.91	1.8 to 2.2	90.2	80 to 120	0.00	20
AW24652	Chloride, Total	mg/L	0.000	0.25	10.00	13.5		4.01	9.84	9 to 11	95.0	80 to 120	0.250	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, 2017

Comments: CORRECTED COPY: Reporting Limit for TDS was incorrectly listed as 2.5 mg/L. The RL has now been corrected.
 Cadmium MDL was increased from 0.0001 to 0.0002. SGC 3/20/17

CC:

Reported: 6/7/2017
 Version: 2.0

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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

Requested Complete Date
 Site Representative
 Collector

Results To
 Requested By
 Location

Analysis Requested
 Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-16	09/26/2016	11:54	3	Groundwater		AW24642
MW-16DUP	09/26/2016	11:54	3	Sample Duplicate		AW24643
MW-15	09/26/2016	13:11	3	Groundwater		AW24644
MW-14	09/26/2016	14:04	3	Groundwater		AW24645
MW-13S	09/27/2016	11:43	5	Groundwater		AW24646
MW-13D	09/27/2016	13:09	3	Groundwater		AW24647
MW-12	09/27/2016	14:33	3	Groundwater		AW24648
FB-1	09/27/2016	14:57	3	Field Blank		AW24649
MW-9S	09/27/2016	19:01	3	Groundwater		AW24650
MW-9D	09/28/2016	10:21	3	Groundwater		AW24651
MW-2	09/28/2016	13:02	3	Groundwater		AW24652

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.09.28 16:41:06 -05'00'</small>	09/28/2016 16:41

SmarTroll ID
 Turbidity ID

All metals and radiological bottles have pH < 2
 Cooler Temp
 Thermometer ID
 pH Strip ID



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 09/28/2016 14:30

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	Turbidity Model 2020we 3901-20009-2-1 used through 9/26/2016 - 9/27/2016 Turbidity Model 2020we 4677-23343-4-2 used on 9/28/2016 AW24623-24 were received out of hold time for Nitrate and Nitrite analysis. SGC 9/29/16

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-03D	09/26/2016	14:12	3	Groundwater		AW24623
MW-03S	09/26/2016	15:35	3	Groundwater		AW24624
MW-04	09/27/2016	12:24	3	Groundwater		AW24625
MW-04 DUP	09/27/2016	12:24	3	Sample Duplicate		AW24626
MW-07D	09/27/2016	14:25	3	Groundwater		AW24627
MW-07S	09/27/2016	15:35	5	Groundwater		AW24628
MW-08S	09/27/2016	17:02	3	Groundwater		AW24629
FB-03	09/27/2016	17:20	3	Field Blank		AW24630
MW-08D	09/28/2016	09:35	3	Groundwater		AW24631
MW-06	09/28/2016	11:45	3	Groundwater		AW24632

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.09.28 16:41:49 -05'00'</small>	09/28/2016 16:41

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
		1.2 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		5521--28276-20-20



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 09/28/2016 14:45

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments	Collected 1-500mL unpreserved bottle for dissolved metals analysis for MW-1; Sample bottles for radium and anions/TDS analysis for MW-11 filled approximately 75% AW24633 received out of hold time for Nitrate and Nitrite analysis. 2.0mL HNO3 added to AW24634 SGC 9/29/16		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	09/26/2016	14:45	3	Groundwater		AW24633
MW-1 Dis	09/26/2016	15:07	1	Groundwater	✓	AW24634
MW-11	09/27/2016	14:53	3	Groundwater		AW24635
FB-2	09/27/2016	15:47	3	Field Blank		AW24636
MW-10	09/27/2016	17:15	3	Groundwater		AW24637
MW-10 DUP	09/27/2016	17:15	3	Sample Duplicate		AW24638
PZ-5	09/28/2016	11:05	3	Groundwater		AW24639
MW-5	09/28/2016	12:20	3	Groundwater		AW24640
EB-1	09/28/2016	13:30	3	Equipment Blank		AW24641

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.09.28 16:42:34 -05'00'</small>	09/28/2016 16:42

SmarTroll ID	4696-23444-3-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	Cooler Temp
		0.6 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		5521-28276-20-20

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: 400-128435-1

TestAmerica Sample Delivery Group: Miller Ash Pond (2)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

11/9/2016 5:18:29 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 Miller

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Job ID: 400-128435-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-128435-1

RAD

Method(s) 9315: Radium-226 Prep Batch 160-274225: The matrix spike and matrix spike duplicate (MS/MSD) have an RPD/RER that is outside of the QC limits of 40%/1. The associated samples are non-detect for the analyte (activity below the RL). The MSD was inadvertently not spiked causing a significant difference between the MS and MSD activity. The associated LCS has a passing spike recovery demonstrating acceptable sample preparation and instrument performance. The data have been qualified and reported. AW24623 MW-3D (400-128435-1), AW24624 MW-3S (400-128435-2), AW24625 MW-4 (400-128435-3), AW24626 MW-4 DUP (400-128435-4), AW24627 MW-7D (400-128435-5), AW24628 MW-7S (400-128435-6), AW24628 MW-7S (400-128435-6[MSJ]), AW24628 MW-7S (400-128435-6[MSD]), AW24650 MW-9S (400-128435-27), AW24651 MW-9D (400-128435-28), AW24652 MW-2 (400-128435-29), (LCS 160-274225/2-A) and (MB 160-274225/1-A)

Method(s) 9315: Radium-226 Prep Batch 160-274225: The matrix spike duplicate (MSD) recovery is outside the lower control limits due to the sample inadvertently not getting spiked. The associated laboratory control sample (LCS) recovery is within acceptance limits demonstrating acceptable sample preparation and instrument performance. This was an apparent anomaly isolated to the MSD. The data have been qualified and reported. AW24623 MW-3D (400-128435-1), AW24624 MW-3S (400-128435-2), AW24625 MW-4 (400-128435-3), AW24626 MW-4 DUP (400-128435-4), AW24627 MW-7D (400-128435-5), AW24628 MW-7S (400-128435-6), AW24628 MW-7S (400-128435-6[MSJ]), AW24628 MW-7S (400-128435-6[MSD]), AW24650 MW-9S (400-128435-27), AW24651 MW-9D (400-128435-28), AW24652 MW-2 (400-128435-29), (LCS 160-274225/2-A) and (MB 160-274225/1-A)

Method(s) 9320: Radium-228 Prep Batch 160-274239: The matrix spike and matrix spike duplicate (MS/MSD) have an RPD/RER that is outside of the QC limits of 40%/1. The associated samples are non-detect for the analyte (activity below the RL). The MSD was inadvertently not spiked causing a significant difference between the MS and MSD activity. The associated LCS has a passing spike recovery demonstrating acceptable sample preparation and instrument performance. The data have been qualified and reported. AW24623 MW-3D (400-128435-1), AW24624 MW-3S (400-128435-2), AW24625 MW-4 (400-128435-3), AW24626 MW-4 DUP (400-128435-4), AW24627 MW-7D (400-128435-5), AW24628 MW-7S (400-128435-6), AW24628 MW-7S (400-128435-6[MSJ]), AW24628 MW-7S (400-128435-6[MSD]), AW24650 MW-9S (400-128435-27), AW24651 MW-9D (400-128435-28), AW24652 MW-2 (400-128435-29), (LCS 160-274239/2-A) and (MB 160-274239/1-A)

Method(s) 9320: Radium-228 Prep Batch 160-274239: The matrix spike duplicate (MSD) recovery is outside the lower control limits due to the sample inadvertently not getting spiked. The associated laboratory control sample (LCS) recovery is within acceptance limits demonstrating acceptable sample preparation and instrument performance. This was an apparent anomaly isolated to the MSD. The data have been qualified and reported. AW24623 MW-3D (400-128435-1), AW24624 MW-3S (400-128435-2), AW24625 MW-4 (400-128435-3), AW24626 MW-4 DUP (400-128435-4), AW24627 MW-7D (400-128435-5), AW24628 MW-7S (400-128435-6), AW24628 MW-7S (400-128435-6[MSJ]), AW24628 MW-7S (400-128435-6[MSD]), AW24650 MW-9S (400-128435-27), AW24651 MW-9D (400-128435-28), AW24652 MW-2 (400-128435-29), (LCS 160-274239/2-A) and (MB 160-274239/1-A)

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-274239: The following samples were prepared at a reduced aliquot due to limited volume AW24623 MW-3D (400-128435-1), AW24624 MW-3S (400-128435-2), AW24625 MW-4 (400-128435-3), AW24626 MW-4 DUP (400-128435-4), AW24627 MW-7D (400-128435-5), AW24628 MW-7S (400-128435-6), AW24628 MW-7S (400-128435-6[MSJ]), AW24628 MW-7S (400-128435-6[MSD]), AW24650 MW-9S (400-128435-27), AW24651 MW-9D (400-128435-28) and AW24652 MW-2 (400-128435-29).

Method(s) PrecSep_0: Radium-228 Prep Batch 160-274227: The following samples were run at a reduced aliquot due to limited sample available: AW24629 MW-8S (400-128435-7), AW24630 FB-3 (400-128435-8), AW24631 MW-8D (400-128435-9), AW24632 MW-6 (400-128435-10), AW24633 MW-1 (400-128435-11), AW24635 MW-11 (400-128435-12), AW24636 FB-2 (400-128435-13), AW24637 MW-10 (400-128435-14), AW24638 MW-10 DUP (400-128435-15), AW24639 PZ-5 (400-128435-16), AW24640 MW-5 (400-128435-17), AW24641 EB-1 (400-128435-18), AW24642 MW-16 (400-128435-19), AW24643 MW-16 DUP (400-128435-20), AW24644 MW-15 (400-128435-21), AW24645 MW-14 (400-128435-22), AW24646 MW-13S (400-128435-23), AW24646 MW-13S (400-128435-23[MSJ]), AW24646 MW-13S (400-128435-23[MSD]), AW24647 MW-13D (400-128435-24), AW24648 MW-12 (400-128435-25) and AW24649 FB-1 (400-128435-26).

Case Narrative

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Job ID: 400-128435-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Method(s) PrecSep-21: Radium-226 Prep Batch: 160-274221: The following samples were prepared at a reduced aliquot due to limited volume AW24629 MW-8S (400-128435-7), AW24630 FB-3 (400-128435-8), AW24631 MW-8D (400-128435-9), AW24632 MW-6 (400-128435-10), AW24633 MW-1 (400-128435-11), AW24635 MW-11 (400-128435-12), AW24636 FB-2 (400-128435-13), AW24637 MW-10 (400-128435-14), AW24638 MW-10 DUP (400-128435-15), AW24639 PZ-5 (400-128435-16), AW24640 MW-5 (400-128435-17), AW24641 EB-1 (400-128435-18), AW24642 MW-16 (400-128435-19), AW24643 MW-16 DUP (400-128435-20), AW24644 MW-15 (400-128435-21), AW24645 MW-14 (400-128435-22), AW24646 MW-13S (400-128435-23), AW24646 MW-13S (400-128435-23[MS]), AW24646 MW-13S (400-128435-23[MSD]), AW24647 MW-13D (400-128435-24), AW24648 MW-12 (400-128435-25) and AW24649 FB-1 (400-128435-26).

Method(s) PrecSep-21: Radium-226 Prep Batch: 160-274225: The following samples were prepared at a reduced aliquot due to limited volume AW24623 MW-3D (400-128435-1), AW24624 MW-3S (400-128435-2), AW24625 MW-4 (400-128435-3), AW24626 MW-4 DUP (400-128435-4), AW24627 MW-7D (400-128435-5), AW24628 MW-7S (400-128435-6), AW24628 MW-7S (400-128435-6[MS]), AW24628 MW-7S (400-128435-6[MSD]), AW24650 MW-9S (400-128435-27), AW24651 MW-9D (400-128435-28) and AW24652 MW-2 (400-128435-29).

Method Summary

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

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 Miller

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128435-1	AW24623 MW-3D	Water	09/26/16 14:12	10/06/16 15:50
400-128435-2	AW24624 MW-3S	Water	09/26/16 15:35	10/06/16 15:50
400-128435-3	AW24625 MW-4	Water	09/27/16 12:24	10/06/16 15:50
400-128435-4	AW24626 MW-4 DUP	Water	09/27/16 12:24	10/06/16 15:50
400-128435-5	AW24627 MW-7D	Water	09/27/16 14:25	10/06/16 15:50
400-128435-6	AW24628 MW-7S	Water	09/27/16 15:35	10/06/16 15:50
400-128435-7	AW24629 MW-8S	Water	09/27/16 17:02	10/06/16 15:50
400-128435-8	AW24630 FB-3	Water	09/27/16 17:20	10/06/16 15:50
400-128435-9	AW24631 MW-8D	Water	09/28/16 09:35	10/06/16 15:50
400-128435-10	AW24632 MW-6	Water	09/28/16 11:45	10/06/16 15:50
400-128435-11	AW24633 MW-1	Water	09/26/16 14:45	10/06/16 15:50
400-128435-12	AW24635 MW-11	Water	09/27/16 14:53	10/06/16 15:50
400-128435-13	AW24636 FB-2	Water	09/27/16 15:47	10/06/16 15:50
400-128435-14	AW24637 MW-10	Water	09/27/16 17:15	10/06/16 15:50
400-128435-15	AW24638 MW-10 DUP	Water	09/27/16 17:15	10/06/16 15:50
400-128435-16	AW24639 PZ-5	Water	09/28/16 11:05	10/06/16 15:50
400-128435-17	AW24640 MW-5	Water	09/28/16 12:20	10/06/16 15:50
400-128435-18	AW24641 EB-1	Water	09/28/16 13:30	10/06/16 15:50
400-128435-19	AW24642 MW-16	Water	09/26/16 11:54	10/06/16 15:50
400-128435-20	AW24643 MW-16 DUP	Water	09/26/16 11:54	10/06/16 15:50
400-128435-21	AW24644 MW-15	Water	09/26/16 13:11	10/06/16 15:50
400-128435-22	AW24645 MW-14	Water	09/26/16 14:04	10/06/16 15:50
400-128435-23	AW24646 MW-13S	Water	09/27/16 11:43	10/06/16 15:50
400-128435-24	AW24647 MW-13D	Water	09/27/16 13:09	10/06/16 15:50
400-128435-25	AW24648 MW-12	Water	09/27/16 14:33	10/06/16 15:50
400-128435-26	AW24649 FB-1	Water	09/27/16 14:57	10/06/16 15:50
400-128435-27	AW24650 MW-9S	Water	09/27/16 19:01	10/06/16 15:50
400-128435-28	AW24651 MW-9D	Water	09/28/16 10:21	10/06/16 15:50
400-128435-29	AW24652 MW-2	Water	09/28/16 13:02	10/06/16 15:50

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24623 MW-3D

Lab Sample ID: 400-128435-1

Date Collected: 09/26/16 14:12

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0420	U F	0.0986	0.0987	1.00	0.176	pCi/L	10/12/16 13:29	11/07/16 22:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					10/12/16 13:29	11/07/16 22:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.596	F	0.368	0.372	1.00	0.563	pCi/L	10/12/16 14:51	11/05/16 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					10/12/16 14:51	11/05/16 16:47	1
Y Carrier	82.2		40 - 110					10/12/16 14:51	11/05/16 16:47	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	0.638		0.381	0.385	5.00	0.563	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24624 MW-3S

Lab Sample ID: 400-128435-2

Date Collected: 09/26/16 15:35

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151	U F	0.121	0.122	1.00	0.184	pCi/L	10/12/16 13:29	11/07/16 22:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					10/12/16 13:29	11/07/16 22:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.336	U F	0.325	0.326	1.00	0.525	pCi/L	10/12/16 14:51	11/05/16 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					10/12/16 14:51	11/05/16 16:47	1
Y Carrier	83.7		40 - 110					10/12/16 14:51	11/05/16 16:47	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	0.488	U	0.347	0.348	5.00	0.525	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24625 MW-4

Lab Sample ID: 400-128435-3

Date Collected: 09/27/16 12:24

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194	F	0.114	0.115	1.00	0.152	pCi/L	10/12/16 13:29	11/07/16 22:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/12/16 13:29	11/07/16 22:40	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 F	0.332	0.333	1.00	0.538	pCi/L	10/12/16 14:51	11/05/16 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/12/16 14:51	11/05/16 16:47	1
Y Carrier	84.1		40 - 110					10/12/16 14:51	11/05/16 16:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.529	U	0.351	0.352	5.00	0.538	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24626 MW-4 DUP

Lab Sample ID: 400-128435-4

Date Collected: 09/27/16 12:24

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.202	U F	0.141	0.142	1.00	0.209	pCi/L	10/12/16 13:29	11/07/16 22:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					10/12/16 13:29	11/07/16 22:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.496	U F	0.339	0.342	1.00	0.524	pCi/L	10/12/16 14:51	11/05/16 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					10/12/16 14:51	11/05/16 16:47	1
Y Carrier	89.3		40 - 110					10/12/16 14:51	11/05/16 16:47	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		0.367	0.370	5.00	0.524	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24627 MW-7D

Lab Sample ID: 400-128435-5

Date Collected: 09/27/16 14:25

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.205	F	0.121	0.122	1.00	0.166	pCi/L	10/12/16 13:29	11/07/16 22:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					10/12/16 13:29	11/07/16 22:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.593	U F	0.438	0.441	1.00	0.693	pCi/L	10/12/16 14:51	11/05/16 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					10/12/16 14:51	11/05/16 16:47	1
Y Carrier	81.5		40 - 110					10/12/16 14:51	11/05/16 16:47	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	0.798		0.454	0.458	5.00	0.693	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24628 MW-7S

Lab Sample ID: 400-128435-6

Date Collected: 09/27/16 15:35

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124	U F	0.107	0.107	1.00	0.163	pCi/L	10/12/16 13:29	11/07/16 22:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/12/16 13:29	11/07/16 22:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.392	U F	0.343	0.345	1.00	0.550	pCi/L	10/12/16 14:51	11/05/16 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/12/16 14:51	11/05/16 16:47	1
Y Carrier	87.9		40 - 110					10/12/16 14:51	11/05/16 16:47	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	0.515	U	0.359	0.361	5.00	0.550	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24629 MW-8S

Lab Sample ID: 400-128435-7

Date Collected: 09/27/16 17:02

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0465	U	0.217	0.217	1.00	0.418	pCi/L	10/12/16 12:43	11/07/16 22:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					10/12/16 12:43	11/07/16 22:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.140	U	0.303	0.304	1.00	0.520	pCi/L	10/12/16 13:45	11/07/16 13:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					10/12/16 13:45	11/07/16 13:40	1
Y Carrier	91.6		40 - 110					10/12/16 13:45	11/07/16 13:40	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	0.0932	U	0.373	0.373	5.00	0.520	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24630 FB-3

Lab Sample ID: 400-128435-8

Date Collected: 09/27/16 17:20

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00630	U	0.189	0.189	1.00	0.356	pCi/L	10/12/16 12:43	11/07/16 22:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					10/12/16 12:43	11/07/16 22:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.721		0.340	0.346	1.00	0.492	pCi/L	10/12/16 13:45	11/07/16 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					10/12/16 13:45	11/07/16 13:46	1
Y Carrier	87.9		40 - 110					10/12/16 13:45	11/07/16 13:46	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.727		0.389	0.394	5.00	0.492	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24631 MW-8D

Lab Sample ID: 400-128435-9

Date Collected: 09/28/16 09:35

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105	U	0.188	0.188	1.00	0.324	pCi/L	10/12/16 12:43	11/07/16 22:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					10/12/16 12:43	11/07/16 22:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.100	U	0.253	0.254	1.00	0.439	pCi/L	10/12/16 13:45	11/07/16 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					10/12/16 13:45	11/07/16 13:47	1
Y Carrier	85.6		40 - 110					10/12/16 13:45	11/07/16 13:47	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	0.205	U	0.315	0.316	5.00	0.439	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24632 MW-6

Lab Sample ID: 400-128435-10

Date Collected: 09/28/16 11:45

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00316	U	0.158	0.158	1.00	0.307	pCi/L	10/12/16 12:43	11/07/16 22:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/12/16 12:43	11/07/16 22:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0484	U	0.282	0.282	1.00	0.498	pCi/L	10/12/16 13:45	11/07/16 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/12/16 13:45	11/07/16 13:47	1
Y Carrier	85.2		40 - 110					10/12/16 13:45	11/07/16 13:47	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	0.0516	U	0.323	0.323	5.00	0.498	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24633 MW-1

Lab Sample ID: 400-128435-11

Date Collected: 09/26/16 14:45

Matrix: Water

Date Received: 10/06/16 15:50

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	0.165	0.166	1.00	0.272	pCi/L	10/12/16 12:43	11/07/16 22:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					10/12/16 12:43	11/07/16 22:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.362	U	0.297	0.299	1.00	0.473	pCi/L	10/12/16 13:45	11/07/16 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					10/12/16 13:45	11/07/16 13:47	1
Y Carrier	90.5		40 - 110					10/12/16 13:45	11/07/16 13:47	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	0.499		0.340	0.342	5.00	0.473	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24635 MW-11

Lab Sample ID: 400-128435-12

Date Collected: 09/27/16 14:53

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0633	U	0.161	0.161	1.00	0.292	pCi/L	10/12/16 12:43	11/07/16 22:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					10/12/16 12:43	11/07/16 22:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.587	U	0.384	0.388	1.00	0.591	pCi/L	10/12/16 13:45	11/07/16 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					10/12/16 13:45	11/07/16 14:42	1
Y Carrier	86.7		40 - 110					10/12/16 13:45	11/07/16 14:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.650		0.416	0.420	5.00	0.591	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24636 FB-2

Lab Sample ID: 400-128435-13

Date Collected: 09/27/16 15:47

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0499	U	0.135	0.135	1.00	0.287	pCi/L	10/12/16 12:43	11/07/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/12/16 12:43	11/07/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.228	U	0.295	0.296	1.00	0.491	pCi/L	10/12/16 13:45	11/07/16 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/12/16 13:45	11/07/16 13:50	1
Y Carrier	84.1		40 - 110					10/12/16 13:45	11/07/16 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	0.178	U	0.325	0.325	5.00	0.491	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24637 MW-10

Lab Sample ID: 400-128435-14

Date Collected: 09/27/16 17:15

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.258	U	0.219	0.220	1.00	0.340	pCi/L	10/12/16 12:43	11/07/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					10/12/16 12:43	11/07/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.562		0.350	0.354	1.00	0.537	pCi/L	10/12/16 13:45	11/07/16 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					10/12/16 13:45	11/07/16 13:50	1
Y Carrier	85.6		40 - 110					10/12/16 13:45	11/07/16 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	0.820		0.413	0.416	5.00	0.537	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24638 MW-10 DUP

Lab Sample ID: 400-128435-15

Date Collected: 09/27/16 17:15

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.198	U	0.198	0.199	1.00	0.315	pCi/L	10/12/16 12:43	11/07/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					10/12/16 12:43	11/07/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.487	U	0.373	0.376	1.00	0.591	pCi/L	10/12/16 13:45	11/07/16 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					10/12/16 13:45	11/07/16 14:11	1
Y Carrier	89.3		40 - 110					10/12/16 13:45	11/07/16 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.685		0.422	0.425	5.00	0.591	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24639 PZ-5

Lab Sample ID: 400-128435-16

Date Collected: 09/28/16 11:05

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211	U	0.266	0.266	1.00	0.441	pCi/L	10/12/16 12:43	11/07/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.5		40 - 110					10/12/16 12:43	11/07/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.345	U	0.485	0.486	1.00	0.811	pCi/L	10/12/16 13:45	11/07/16 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.5		40 - 110					10/12/16 13:45	11/07/16 14:11	1
Y Carrier	86.7		40 - 110					10/12/16 13:45	11/07/16 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.556	U	0.553	0.554	5.00	0.811	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24640 MW-5

Lab Sample ID: 400-128435-17

Date Collected: 09/28/16 12:20

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.176	0.177	1.00	0.305	pCi/L	10/12/16 12:43	11/07/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					10/12/16 12:43	11/07/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.296	U	0.328	0.330	1.00	0.539	pCi/L	10/12/16 13:45	11/07/16 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					10/12/16 13:45	11/07/16 14:11	1
Y Carrier	87.9		40 - 110					10/12/16 13:45	11/07/16 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.403	U	0.373	0.374	5.00	0.539	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24641 EB-1

Lab Sample ID: 400-128435-18

Date Collected: 09/28/16 13:30

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0336	U	0.152	0.152	1.00	0.285	pCi/L	10/12/16 12:43	11/07/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					10/12/16 12:43	11/07/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.213	U	0.267	0.268	1.00	0.514	pCi/L	10/12/16 13:45	11/07/16 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					10/12/16 13:45	11/07/16 14:11	1
Y Carrier	88.2		40 - 110					10/12/16 13:45	11/07/16 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.179	U	0.307	0.308	5.00	0.514	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24642 MW-16

Lab Sample ID: 400-128435-19

Date Collected: 09/26/16 11:54

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.503		0.270	0.274	1.00	0.382	pCi/L	10/12/16 12:43	11/07/16 22:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/12/16 12:43	11/07/16 22:56	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	0.327	0.329	1.00	0.528	pCi/L	10/12/16 13:45	11/07/16 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/12/16 13:45	11/07/16 14:11	1
Y Carrier	86.7		40 - 110					10/12/16 13:45	11/07/16 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.854		0.425	0.428	5.00	0.528	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24643 MW-16 DUP

Lab Sample ID: 400-128435-20

Date Collected: 09/26/16 11:54

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.447		0.256	0.259	1.00	0.362	pCi/L	10/12/16 12:43	11/07/16 22:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					10/12/16 12:43	11/07/16 22:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.612		0.331	0.335	1.00	0.489	pCi/L	10/12/16 13:45	11/07/16 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					10/12/16 13:45	11/07/16 14:11	1
Y Carrier	89.7		40 - 110					10/12/16 13:45	11/07/16 14:11	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.418	0.424	5.00	0.489	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24644 MW-15

Lab Sample ID: 400-128435-21

Date Collected: 09/26/16 13:11

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.268	U	0.230	0.231	1.00	0.358	pCi/L	10/12/16 12:43	11/07/16 22:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/12/16 12:43	11/07/16 22:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.395	U	0.387	0.388	1.00	0.628	pCi/L	10/12/16 13:45	11/07/16 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/12/16 13:45	11/07/16 14:22	1
Y Carrier	89.7		40 - 110					10/12/16 13:45	11/07/16 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	0.663		0.450	0.452	5.00	0.628	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24645 MW-14

Lab Sample ID: 400-128435-22

Date Collected: 09/26/16 14:04

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0852	U	0.140	0.140	1.00	0.241	pCi/L	10/12/16 12:43	11/08/16 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/12/16 12:43	11/08/16 10:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.141	U	0.368	0.368	1.00	0.631	pCi/L	10/12/16 13:45	11/07/16 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/12/16 13:45	11/07/16 14:23	1
Y Carrier	88.6		40 - 110					10/12/16 13:45	11/07/16 14:23	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	0.226	U	0.393	0.394	5.00	0.631	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24646 MW-13S

Lab Sample ID: 400-128435-23

Date Collected: 09/27/16 11:43

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0701	U	0.142	0.142	1.00	0.251	pCi/L	10/12/16 12:43	11/08/16 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110					10/12/16 12:43	11/08/16 10:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.167	U	0.344	0.344	1.00	0.587	pCi/L	10/12/16 13:45	11/07/16 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110					10/12/16 13:45	11/07/16 14:23	1
Y Carrier	89.3		40 - 110					10/12/16 13:45	11/07/16 14:23	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	0.237	U	0.372	0.373	5.00	0.587	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24647 MW-13D

Lab Sample ID: 400-128435-24

Date Collected: 09/27/16 13:09

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.222	U	0.168	0.169	1.00	0.249	pCi/L	10/12/16 12:43	11/08/16 11:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					10/12/16 12:43	11/08/16 11:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.163	U	0.348	0.349	1.00	0.596	pCi/L	10/12/16 13:45	11/07/16 14:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					10/12/16 13:45	11/07/16 14:46	1
Y Carrier	86.4		40 - 110					10/12/16 13:45	11/07/16 14:46	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.385	U	0.387	0.387	5.00	0.596	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24648 MW-12

Lab Sample ID: 400-128435-25

Date Collected: 09/27/16 14:33

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.260		0.170	0.172	1.00	0.240	pCi/L	10/12/16 12:43	11/08/16 11:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					10/12/16 12:43	11/08/16 11:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.598		0.357	0.361	1.00	0.536	pCi/L	10/12/16 13:45	11/07/16 14:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					10/12/16 13:45	11/07/16 14:46	1
Y Carrier	85.2		40 - 110					10/12/16 13:45	11/07/16 14:46	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.858		0.396	0.400	5.00	0.536	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24649 FB-1

Lab Sample ID: 400-128435-26

Date Collected: 09/27/16 14:57

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0247	U	0.143	0.143	1.00	0.269	pCi/L	10/12/16 12:43	11/08/16 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					10/12/16 12:43	11/08/16 11:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.516	U	0.394	0.397	1.00	0.623	pCi/L	10/12/16 13:45	11/07/16 14:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					10/12/16 13:45	11/07/16 14:46	1
Y Carrier	91.2		40 - 110					10/12/16 13:45	11/07/16 14:46	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.540	U	0.419	0.422	5.00	0.623	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24650 MW-9S

Lab Sample ID: 400-128435-27

Date Collected: 09/27/16 19:01

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.240	F	0.135	0.136	1.00	0.179	pCi/L	10/12/16 13:29	11/07/16 22:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					10/12/16 13:29	11/07/16 22:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.400	U F	0.384	0.386	1.00	0.620	pCi/L	10/12/16 14:51	11/05/16 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					10/12/16 14:51	11/05/16 16:48	1
Y Carrier	86.0		40 - 110					10/12/16 14:51	11/05/16 16:48	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	0.639		0.407	0.409	5.00	0.620	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24651 MW-9D

Lab Sample ID: 400-128435-28

Date Collected: 09/28/16 10:21

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U F	0.106	0.106	1.00	0.163	pCi/L	10/12/16 13:29	11/07/16 22:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					10/12/16 13:29	11/07/16 22:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0468	U F	0.316	0.316	1.00	0.575	pCi/L	10/12/16 14:51	11/05/16 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					10/12/16 14:51	11/05/16 16:48	1
Y Carrier	81.9		40 - 110					10/12/16 14:51	11/05/16 16:48	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	0.0728	U	0.334	0.334	5.00	0.575	pCi/L		11/09/16 08:38	1

Client Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24652 MW-2

Lab Sample ID: 400-128435-29

Date Collected: 09/28/16 13:02

Matrix: Water

Date Received: 10/06/16 15:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.168	U F	0.124	0.125	1.00	0.185	pCi/L	10/12/16 13:29	11/07/16 22:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					10/12/16 13:29	11/07/16 22:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.168	U F	0.279	0.279	1.00	0.472	pCi/L	10/12/16 14:51	11/05/16 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					10/12/16 14:51	11/05/16 16:48	1
Y Carrier	89.0		40 - 110					10/12/16 14:51	11/05/16 16:48	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	0.336	U	0.305	0.306	5.00	0.472	pCi/L		11/09/16 08:38	1

Definitions/Glossary

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
U	Result is less than the sample detection limit.
F1	MS and/or MSD Recovery is outside acceptance 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24623 MW-3D

Lab Sample ID: 400-128435-1

Date Collected: 09/26/16 14:12

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278076	11/07/16 22:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24624 MW-3S

Lab Sample ID: 400-128435-2

Date Collected: 09/26/16 15:35

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278076	11/07/16 22:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24625 MW-4

Lab Sample ID: 400-128435-3

Date Collected: 09/27/16 12:24

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278076	11/07/16 22:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24626 MW-4 DUP

Lab Sample ID: 400-128435-4

Date Collected: 09/27/16 12:24

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278076	11/07/16 22:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24627 MW-7D

Lab Sample ID: 400-128435-5

Date Collected: 09/27/16 14:25

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278076	11/07/16 22:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24628 MW-7S

Lab Sample ID: 400-128435-6

Date Collected: 09/27/16 15:35

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278076	11/07/16 22:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24629 MW-8S

Lab Sample ID: 400-128435-7

Date Collected: 09/27/16 17:02

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:50	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278003	11/07/16 13:40	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24630 FB-3

Lab Sample ID: 400-128435-8

Date Collected: 09/27/16 17:20

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:50	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 13:46	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Client Sample ID: AW24631 MW-8D

Lab Sample ID: 400-128435-9

Date Collected: 09/28/16 09:35

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:50	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 13:47	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24632 MW-6

Lab Sample ID: 400-128435-10

Date Collected: 09/28/16 11:45

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:51	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 13:47	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24633 MW-1

Lab Sample ID: 400-128435-11

Date Collected: 09/26/16 14:45

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:51	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 13:47	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24635 MW-11

Lab Sample ID: 400-128435-12

Date Collected: 09/27/16 14:53

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:51	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:42	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24636 FB-2

Lab Sample ID: 400-128435-13

Date Collected: 09/27/16 15:47

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:55	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278076	11/07/16 13:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24637 MW-10

Lab Sample ID: 400-128435-14

Date Collected: 09/27/16 17:15

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:55	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278076	11/07/16 13:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24638 MW-10 DUP

Lab Sample ID: 400-128435-15

Date Collected: 09/27/16 17:15

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:55	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:11	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24639 PZ-5

Lab Sample ID: 400-128435-16

Date Collected: 09/28/16 11:05

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:55	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:11	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Client Sample ID: AW24640 MW-5

Lab Sample ID: 400-128435-17

Date Collected: 09/28/16 12:20

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:55	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:11	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24641 EB-1

Lab Sample ID: 400-128435-18

Date Collected: 09/28/16 13:30

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:55	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:11	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24642 MW-16

Lab Sample ID: 400-128435-19

Date Collected: 09/26/16 11:54

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:56	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:11	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24643 MW-16 DUP

Lab Sample ID: 400-128435-20

Date Collected: 09/26/16 11:54

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:56	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278009	11/07/16 14:11	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Client Sample ID: AW24644 MW-15

Lab Sample ID: 400-128435-21

Date Collected: 09/26/16 13:11

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278003	11/07/16 22:56	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278003	11/07/16 14:22	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24645 MW-14

Lab Sample ID: 400-128435-22

Date Collected: 09/26/16 14:04

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278266	11/08/16 10:58	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278003	11/07/16 14:23	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24646 MW-13S

Lab Sample ID: 400-128435-23

Date Collected: 09/27/16 11:43

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278266	11/08/16 10:58	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278003	11/07/16 14:23	ALS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24647 MW-13D

Lab Sample ID: 400-128435-24

Date Collected: 09/27/16 13:09

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278291	11/08/16 11:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278076	11/07/16 14:46	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Client Sample ID: AW24648 MW-12

Lab Sample ID: 400-128435-25

Date Collected: 09/27/16 14:33

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278291	11/08/16 11:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278076	11/07/16 14:46	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24649 FB-1

Lab Sample ID: 400-128435-26

Date Collected: 09/27/16 14:57

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274221	10/12/16 12:43	AS	TAL SL
Total/NA	Analysis	9315		1	278291	11/08/16 11:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			274227	10/12/16 13:45	AS	TAL SL
Total/NA	Analysis	9320		1	278076	11/07/16 14:46	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24650 MW-9S

Lab Sample ID: 400-128435-27

Date Collected: 09/27/16 19:01

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:48	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Client Sample ID: AW24651 MW-9D

Lab Sample ID: 400-128435-28

Date Collected: 09/28/16 10:21

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:49	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Client Sample ID: AW24652 MW-2

Lab Sample ID: 400-128435-29

Date Collected: 09/28/16 13:02

Matrix: Water

Date Received: 10/06/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			274225	10/12/16 13:29	AS	TAL SL
Total/NA	Analysis	9315		1	278009	11/07/16 22:49	ALS	TAL SL
Total/NA	Prep	PrecSep_0			274239	10/12/16 14:51	AS	TAL SL
Total/NA	Analysis	9320		1	277812	11/05/16 16:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	278328	11/09/16 08:38	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 Miller

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Rad

Prep Batch: 274221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128435-7	AW24629 MW-8S	Total/NA	Water	PrecSep-21	
400-128435-8	AW24630 FB-3	Total/NA	Water	PrecSep-21	
400-128435-9	AW24631 MW-8D	Total/NA	Water	PrecSep-21	
400-128435-10	AW24632 MW-6	Total/NA	Water	PrecSep-21	
400-128435-11	AW24633 MW-1	Total/NA	Water	PrecSep-21	
400-128435-12	AW24635 MW-11	Total/NA	Water	PrecSep-21	
400-128435-13	AW24636 FB-2	Total/NA	Water	PrecSep-21	
400-128435-14	AW24637 MW-10	Total/NA	Water	PrecSep-21	
400-128435-15	AW24638 MW-10 DUP	Total/NA	Water	PrecSep-21	
400-128435-16	AW24639 PZ-5	Total/NA	Water	PrecSep-21	
400-128435-17	AW24640 MW-5	Total/NA	Water	PrecSep-21	
400-128435-18	AW24641 EB-1	Total/NA	Water	PrecSep-21	
400-128435-19	AW24642 MW-16	Total/NA	Water	PrecSep-21	
400-128435-20	AW24643 MW-16 DUP	Total/NA	Water	PrecSep-21	
400-128435-21	AW24644 MW-15	Total/NA	Water	PrecSep-21	
400-128435-22	AW24645 MW-14	Total/NA	Water	PrecSep-21	
400-128435-23	AW24646 MW-13S	Total/NA	Water	PrecSep-21	
400-128435-24	AW24647 MW-13D	Total/NA	Water	PrecSep-21	
400-128435-25	AW24648 MW-12	Total/NA	Water	PrecSep-21	
400-128435-26	AW24649 FB-1	Total/NA	Water	PrecSep-21	
MB 160-274221/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-274221/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-128435-23 MS	AW24646 MW-13S	Total/NA	Water	PrecSep-21	
400-128435-23 MSD	AW24646 MW-13S	Total/NA	Water	PrecSep-21	

Prep Batch: 274225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128435-1	AW24623 MW-3D	Total/NA	Water	PrecSep-21	
400-128435-2	AW24624 MW-3S	Total/NA	Water	PrecSep-21	
400-128435-3	AW24625 MW-4	Total/NA	Water	PrecSep-21	
400-128435-4	AW24626 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-128435-5	AW24627 MW-7D	Total/NA	Water	PrecSep-21	
400-128435-6	AW24628 MW-7S	Total/NA	Water	PrecSep-21	
400-128435-27	AW24650 MW-9S	Total/NA	Water	PrecSep-21	
400-128435-28	AW24651 MW-9D	Total/NA	Water	PrecSep-21	
400-128435-29	AW24652 MW-2	Total/NA	Water	PrecSep-21	
MB 160-274225/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-274225/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-128435-6 MS	AW24628 MW-7S	Total/NA	Water	PrecSep-21	
400-128435-6 MSD	AW24628 MW-7S	Total/NA	Water	PrecSep-21	

Prep Batch: 274227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128435-7	AW24629 MW-8S	Total/NA	Water	PrecSep_0	
400-128435-8	AW24630 FB-3	Total/NA	Water	PrecSep_0	
400-128435-9	AW24631 MW-8D	Total/NA	Water	PrecSep_0	
400-128435-10	AW24632 MW-6	Total/NA	Water	PrecSep_0	
400-128435-11	AW24633 MW-1	Total/NA	Water	PrecSep_0	
400-128435-12	AW24635 MW-11	Total/NA	Water	PrecSep_0	
400-128435-13	AW24636 FB-2	Total/NA	Water	PrecSep_0	
400-128435-14	AW24637 MW-10	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Rad (Continued)

Prep Batch: 274227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128435-15	AW24638 MW-10 DUP	Total/NA	Water	PrecSep_0	
400-128435-16	AW24639 PZ-5	Total/NA	Water	PrecSep_0	
400-128435-17	AW24640 MW-5	Total/NA	Water	PrecSep_0	
400-128435-18	AW24641 EB-1	Total/NA	Water	PrecSep_0	
400-128435-19	AW24642 MW-16	Total/NA	Water	PrecSep_0	
400-128435-20	AW24643 MW-16 DUP	Total/NA	Water	PrecSep_0	
400-128435-21	AW24644 MW-15	Total/NA	Water	PrecSep_0	
400-128435-22	AW24645 MW-14	Total/NA	Water	PrecSep_0	
400-128435-23	AW24646 MW-13S	Total/NA	Water	PrecSep_0	
400-128435-24	AW24647 MW-13D	Total/NA	Water	PrecSep_0	
400-128435-25	AW24648 MW-12	Total/NA	Water	PrecSep_0	
400-128435-26	AW24649 FB-1	Total/NA	Water	PrecSep_0	
MB 160-274227/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-274227/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-128435-23 MS	AW24646 MW-13S	Total/NA	Water	PrecSep_0	
400-128435-23 MSD	AW24646 MW-13S	Total/NA	Water	PrecSep_0	

Prep Batch: 274239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128435-1	AW24623 MW-3D	Total/NA	Water	PrecSep_0	
400-128435-2	AW24624 MW-3S	Total/NA	Water	PrecSep_0	
400-128435-3	AW24625 MW-4	Total/NA	Water	PrecSep_0	
400-128435-4	AW24626 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-128435-5	AW24627 MW-7D	Total/NA	Water	PrecSep_0	
400-128435-6	AW24628 MW-7S	Total/NA	Water	PrecSep_0	
400-128435-27	AW24650 MW-9S	Total/NA	Water	PrecSep_0	
400-128435-28	AW24651 MW-9D	Total/NA	Water	PrecSep_0	
400-128435-29	AW24652 MW-2	Total/NA	Water	PrecSep_0	
MB 160-274239/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-274239/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-128435-6 MS	AW24628 MW-7S	Total/NA	Water	PrecSep_0	
400-128435-6 MSD	AW24628 MW-7S	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-274221/1-A
Matrix: Water
Analysis Batch: 278009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274221

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07867	U	0.174	0.175	1.00	0.305	pCi/L	10/12/16 12:43	11/07/16 22:49	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		10/12/16 12:43	11/07/16 22:49				1	
	84.0		40 - 110							

Lab Sample ID: LCS 160-274221/2-A
Matrix: Water
Analysis Batch: 278009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 274221

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	12.77		1.39	1.00	0.239	pCi/L	115	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		10/12/16 12:43	11/07/16 22:49				1
	87.5		40 - 110						

Lab Sample ID: 400-128435-23 MS
Matrix: Water
Analysis Batch: 278266

Client Sample ID: AW24646 MW-13S
Prep Type: Total/NA
Prep Batch: 274221

Analyte	Sample Sample		Spike	MS MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual	Added	Result Qual	Uncert. (2σ+/-)					
Radium-226	0.0701	U	14.8	18.20	1.92	1.00	0.325	pCi/L	123	75 - 138
Carrier	MS MS		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		10/12/16 12:43	11/07/16 22:49				1	
	88.6		40 - 110							

Lab Sample ID: 400-128435-23 MSD
Matrix: Water
Analysis Batch: 278291

Client Sample ID: AW24646 MW-13S
Prep Type: Total/NA
Prep Batch: 274221

Analyte	Sample Sample		Spike	MSD MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual	Added	Result Qual	Uncert. (2σ+/-)							
Radium-226	0.0701	U	14.8	19.17	1.99	1.00	0.272	pCi/L	129	75 - 138	0.25	1
Carrier	MSD MSD		Limits			Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier		10/12/16 12:43	11/07/16 22:49				1			
	90.6		40 - 110									

Lab Sample ID: MB 160-274225/1-A
Matrix: Water
Analysis Batch: 278009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274225

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.5342		0.162	0.169	1.00	0.189	pCi/L	10/12/16 13:29	11/07/16 19:22	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-274225/1-A
Matrix: Water
Analysis Batch: 278009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274225

Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits
Ba Carrier	88.3		40 - 110

Prepared	Analyzed	Dil Fac
10/12/16 13:29	11/07/16 19:22	1

Lab Sample ID: LCS 160-274225/2-A
Matrix: Water
Analysis Batch: 278009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 274225

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	14.34		1.45	1.00	0.168	pCi/L	129	68 - 137

Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits
Ba Carrier	87.5		40 - 110

Lab Sample ID: 400-128435-6 MS
Matrix: Water
Analysis Batch: 278009

Client Sample ID: AW24628 MW-7S
Prep Type: Total/NA
Prep Batch: 274225

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.124	U F	14.8	16.03		1.64	1.00	0.199	pCi/L	108	75 - 138

Carrier	<i>MS</i> %Yield	<i>MS</i> Qualifier	Limits
Ba Carrier	92.0		40 - 110

Lab Sample ID: 400-128435-6 MSD
Matrix: Water
Analysis Batch: 278009

Client Sample ID: AW24628 MW-7S
Prep Type: Total/NA
Prep Batch: 274225

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.124	U F	14.8	-0.04164	U F1 F	0.0919	1.00	0.200	pCi/L	-0.3	75 - 138	9.28	1

Carrier	<i>MSD</i> %Yield	<i>MSD</i> Qualifier	Limits
Ba Carrier	75.8		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-274227/1-A
Matrix: Water
Analysis Batch: 278003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274227

Analyte	<i>MB</i> Result	<i>MB</i> Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5139	U	0.340	0.343	1.00	0.525	pCi/L	10/12/16 13:45	11/07/16 13:39	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-274227/1-A
Matrix: Water
Analysis Batch: 278003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274227

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	84.0		40 - 110
Y Carrier	89.7		40 - 110

Prepared	Analyzed	Dil Fac
10/12/16 13:45	11/07/16 13:39	1
10/12/16 13:45	11/07/16 13:39	1

Lab Sample ID: LCS 160-274227/2-A
Matrix: Water
Analysis Batch: 278003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 274227

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	19.1	20.83		2.21	1.00	0.512	pCi/L	109	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.5		40 - 110
Y Carrier	90.1		40 - 110

Lab Sample ID: 400-128435-23 MS
Matrix: Water
Analysis Batch: 278009

Client Sample ID: AW24646 MW-13S
Prep Type: Total/NA
Prep Batch: 274227

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.167	U	19.1	17.59		1.92	1.00	0.503	pCi/L	92	45 - 150

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	88.6		40 - 110
Y Carrier	95.0		40 - 110

Lab Sample ID: 400-128435-23 MSD
Matrix: Water
Analysis Batch: 278009

Client Sample ID: AW24646 MW-13S
Prep Type: Total/NA
Prep Batch: 274227

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.167	U	19.1	19.12		2.06	1.00	0.511	pCi/L	100	45 - 150	0.38	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	90.6		40 - 110
Y Carrier	92.3		40 - 110

Lab Sample ID: MB 160-274239/1-A
Matrix: Water
Analysis Batch: 277811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274239

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1534	U	0.243	0.243	1.00	0.463	pCi/L	10/12/16 14:51	11/05/16 16:41	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-274239/1-A
Matrix: Water
Analysis Batch: 277811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274239

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	88.3		40 - 110
Y Carrier	78.9		40 - 110

Prepared	Analyzed	Dil Fac
10/12/16 14:51	11/05/16 16:41	1
10/12/16 14:51	11/05/16 16:41	1

Lab Sample ID: LCS 160-274239/2-A
Matrix: Water
Analysis Batch: 277811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 274239

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.3	15.84		1.72	1.00	0.493	pCi/L	111	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.5		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: 400-128435-6 MS
Matrix: Water
Analysis Batch: 277812

Client Sample ID: AW24628 MW-7S
Prep Type: Total/NA
Prep Batch: 274239

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.392	U F	19.1	17.56		1.92	1.00	0.509	pCi/L	92	45 - 150

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	92.0		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: 400-128435-6 MSD
Matrix: Water
Analysis Batch: 277812

Client Sample ID: AW24628 MW-7S
Prep Type: Total/NA
Prep Batch: 274239


Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.392	U F	19.1	0.1829	U F1 F	0.356	1.00	0.607	pCi/L	1	45 - 150	7.63	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	75.8		40 - 110
Y Carrier	89.3		40 - 110

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

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: Miller Ash Pond (2)		Lab PM: Whitnire, Cheyenne R E-Mail: cheyenne.whitnire@testamericainc.com		Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 1 of 3 Job #:				
Due Date Requested: TAT Requested (days): Routine		Analysis Requested  400-128435 COC						
Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 S - H2SO4 G - Archlor H - Ascorbic Acid T - TSP Dodecahydrate I - Ice J - DI Water U - Acetone K - EDTA V - MCAA L - EDA W - pH 4-5 Z - other (specify) Other:		Special Instructions/Note:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note
AW24623	9/26/16	1412	G	Water	X	X	1	MMW-3D
AW24624	9/26/16	1535	G	Water	X	X	1	MMW-3S
AW24625	9/27/16	1224	G	Water	X	X	1	MMW-4
AW24626	9/27/16	1224	G	Water	X	X	1	MMW-4 Dup (Sample Duplicate)
AW24627	9/27/16	1425	G	Water	X	X	1	MMW-7D
AW24628	9/27/16	1535	G	Water	Y	X	3	MMW-7S
AW24629	9/27/16	1702	G	Water	X	X	1	MMW-8S
AW24630	9/27/16	1720	G	Water	X	X	1	FB-3 (Field Blank)
AW24631	9/28/16	0935	G	Water	X	X	1	MMW-8D
AW24632	9/28/16	1145	G	Water	X	X	1	MMW-6
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Polson B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological								
Deliverable Requested: I, II, III, IV, Other (specify)								
Empty Kit Relinquished by: Sarah Copeland Relinquished by: Sarah Copeland Relinquished by: Relinquished by:								
Date/Time: 10/5/2016, 1000 Date/Time: Date/Time:								
Date/Time: 10/16/16 1550 Date/Time: Date/Time:								
Cooler Temperature(s) °C and Other Remarks: 18.8°C, 21.2°C IRB								



Chain of Custody Record

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

Client Information
 Client Contact: Sarah Copeland
 Lab P/W: Whitmire, Cheyenne R
 Camer Tracking No(s):
 E-Mail: cheyenne.whitmire@testamericainc.com
 Project Name: CCR
 Project #: 40007143
 SOW#: Miller Ash Pond (2)

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
 PO #:
 IWO #:
 Due Date Requested:
 TAT Requested (days): **Routine**
 Matrix (Number, Solid, Organic, Aqueous):
 Sample Type (C=Comp, G=grab):
 Sample Date:
 Sample Time:
 Preservation Code:
 Matrix (Number, Solid, Organic, Aqueous):

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
AW24633	9/26/16	1445	G	Water	X	X	9315_Ra226, 9320_Ra226, Ra226Ra228_GFPc	1	MW-1
AW24635	9/27/16	1453	G	Water	X	X		1	MW-11
AW24636	9/27/16	1547	G	Water	X	X		1	FB-2 (Field Blank)
AW24637	9/27/16	1715	G	Water	X	X		1	MW-10
AW24638	9/27/16	1715	G	Water	X	X		1	MW-10 Dup (Sample Duplicate)
AW24639	9/28/16	1105	G	Water	X	X		1	PZ-5
AW24640	9/28/16	1220	G	Water	X	X		1	MW-5
AW24641	9/28/16	1330	G	Water	X	X		1	EB-1 (Equipment Blank)

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Sarah Copeland
 Relinquished by: Sarah Copeland
 Relinquished by:
 Relinquished by:
 Date/Time: 10/6/2016; 1000
 Date/Time:
 Date/Time:
 Date/Time:
 Method of Shipment:
 Date/Time: 10/6/16 150
 Date/Time:
 Date/Time:
 Company
 Company
 Company
 Cooler Temperature(s) °C and Other Remarks: 18.8°C, 21.2°C 1B-6



TestAmerica Pensacola
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 Pensacola, FL 32514
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: Anthony Goggins		Lab P/N: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		Phone:		E-Mail: cheyenne.whitmire@testamericainc.com				Page: 3 of 3	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested				Job #:	
Address: 744 County Rd 87 GSC #8		TAT Requested (days):		Routine				Preservation Codes: M - Hexane N - None O - AsH ₂ O ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 L - EDTA Z - other (specify) Other:	
City: Calera		PO #:						Total Number of Containers	
State, Zip: AL, 35040		IWO #:							
Phone: 205-664-6121(Tel)		Project #:							
Email: sgcopela@southerncco.com		CCR							
Site: Miller Ash Pond (2)		SSOW#:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, On-wastefield, IFT-Tissue, A-Juif)	
AW24642		9/26/16		1154		G		Water	
AW24643		9/26/16		1154		G		Water	
AW24644		9/26/16		1311		G		Water	
AW24645		9/26/16		1404		G		Water	
AW24646		9/27/16		1143		G		Water	
AW24647		9/27/16		1309		G		Water	
AW24648		9/27/16		1433		G		Water	
AW24649		9/27/16		1457		G		Water	
AW24650		9/27/16		1901		G		Water	
AW24651		9/28/16		1021		G		Water	
AW24652		9/28/16		1302		G		Water	
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"/> Unknown		<input type="checkbox"/> Unknown		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Date/Time: 10/6/2016; 1000		Company: APC		Method of Shipment:	
Empty Kit Relinquished by: Sarah Copeland		Date:		Date/Time: 10/6/16 1550		Company:		Company:	
Relinquished by:		Date/Time:		Date/Time:		Company:		Company:	
Relinquished by:		Date/Time:		Date/Time:		Company:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		18, 9°C, 21.2°C		12-6		12-6	



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-128435-1
SDG Number: Miller Ash Pond (2)

Login Number: 128435
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	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.8°C, 21.2°C IR-6
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	



Certification Summary

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

TestAmerica Job ID: 400-128435-1
 SDG: Miller Ash Pond (2)

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 400-128435-1
SDG: Miller Ash Pond (2)

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - 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

 Alabama Power



Sample Group : WMWMILAP_1056

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1056

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
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>Chloride Batch ID</u>	<u>Fluoride Batch ID</u>	<u>Sulfate Batch ID</u>	<u>Project ID</u>
AW27421	580788	580790	580796	WMWMILAP_1056
AW27422	580788	580790	580796	WMWMILAP_1056
AW27423	580788	580790	580796	WMWMILAP_1056
AW27424	580788	580790	580796	WMWMILAP_1056
AW27425	580788	580790	580796	WMWMILAP_1056
AW27426	580788	580790	580796	WMWMILAP_1056
AW27427	580788	580790	580796	WMWMILAP_1056
AW27428	580788	580790	580796	WMWMILAP_1056
AW27429	580788	580790	580796	WMWMILAP_1056
AW27430	580788	580790	580796	WMWMILAP_1056
AW27431	580789	580791	580797	WMWMILAP_1056
AW27432	580789	580791	580797	WMWMILAP_1056
AW27552	580798	580800	580806	WMWMILAP_1056
AW27553	580798	580800	580806	WMWMILAP_1056
AW27554	580798	580800	580806	WMWMILAP_1056
AW27555	580798	580800	580806	WMWMILAP_1056
AW27556	580798	580800	580806	WMWMILAP_1056
AW27557	580798	580800	580806	WMWMILAP_1056
AW27558	580798	580800	580806	WMWMILAP_1056
WA27559	580798	580800	580806	WMWMILAP_1056
AW27560	580798	580800	580806	WMWMILAP_1056
AW27561	580798	580800	580806	WMWMILAP_1056
AW27562	580814	580815	580818	WMWMILAP_1056
AW27563	580814	580815	580818	WMWMILAP_1056
AW27596	580799	580815	580807	WMWMILAP_1056
AW27597	580799	580815	580807	WMWMILAP_1056
AW27598	580799	580815	580807	WMWMILAP_1056
AW27599	580814	580815	580818	WMWMILAP_1056
AW27600	580814	580815	580807	WMWMILAP_1056



4. All of the above samples were analyzed and prepared by EPA 300.0.
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 instrument performance check (IPC) was analyzed and all criteria were met.
- All laboratory reagent blanks were less than the method detection limits for the requested anions, with the following exceptions:
 1. The blank for anion sulfate in batch 580796 presented a negative concentration above the MDL of 0.3, at -1.605 mg/L. Since the concentrations of sulfate in all associated batch samples were above 10x the associated absolute blank concentration, no qualification action is necessary.
 2. The blank for anion sulfate in batch 580797 presented a negative concentration above the MDL of 0.3, at -1.604 mg/L. Since the concentrations of sulfate in all associated batch samples were above 10x the associated absolute blank concentration, no qualification action is necessary.
 3. The blank for anion fluoride in batch 580800 presented a negative concentration above the MDL of 0.01, at -0.051 mg/L. All associated fluoride samples (AW27552 - AW27561, inclusive) are below 10x the absolute value of the fluoride blank, and should be considered as quantitatively estimated positive values if reported above the fluoride RL value (>0.3 mg/L), or as quantitatively estimated non-detect values if reported as non-detects, with the potential for low bias on either the reported positive values or the reported RL value.
 4. The blank for anion sulfate in batch 580806 presented a negative concentration above the MDL of 0.3, at -1.59 mg/L. Two batch samples (AW27554 and AW27557) presented negative sulfate concentrations (-1.511 and -1.554, respectively) below 10x the absolute value of the sulfate blank, and should be considered as quantitatively estimated non-detects at the sulfate reporting limit (RL) concentration, with the potential for low bias on the reported RL value.
 5. The blank for anion sulfate in batch 580818 presented a negative concentration above the MDL of 0.3, at -1.60 mg/L. Two batch samples (AW27599 and AW27563) presented a negative sulfate concentration (-1.59 and -1.39, respectively) below 10x the absolute value of the sulfate blank, and should be considered as a quantitatively estimated non-detect concentration, with the potential for low bias on the reported RL value.
 6. The blank for anion fluoride in batch 580815 presented a negative concentration above the MDL of 0.01, at -0.051 mg/L. Associated fluoride samples (AW27562, AW27563, AW27596, AW27597, AW27599 and AW27600) are below 10x the absolute value of the fluoride blank, and should be considered as quantitatively estimated non-detect values, with the potential for low bias on the reported RL value.



- All laboratory fortified blanks (LFB) were within acceptance criteria for the anions requested, with the following exceptions:
 1. The closing LFB for fluoride in batch 580790 was below the lower recovery limit of 90%, at 85%. Due to low closing LFB recovery, all reported results for the associated fluoride samples (AW27421 - AW27430, inclusive) are qualified as quantitatively estimated with indication of potential low bias.
 2. The opening and closing LFBs for fluoride in batch 580791 were below the lower recovery limit of 90%, at 85% and 83%, respectively. Due to low LFB recoveries, all reported results for the associated fluoride samples (AW27431 and AW27432) are qualified as quantitatively estimated with indication of potential low bias.
 3. The closing LFB for fluoride in batch 580800 was below the lower recovery limit of 90%, at 84%. Due to low LFB recovery, the reported results for the associated fluoride samples (AW27552-AW27561, inclusive) is qualified as quantitatively estimated with indication of potential low bias.
 4. The opening LFB for fluoride in batch 580815 did not show concentrations for fluoride, chloride or sulfate, and the closing LFB for fluoride was below the lower recovery limit of 90%, at 79%. Due to low LFB recovery, the reported results for all associated batch fluoride samples (AW27596 - AW27600, AW27562 and AW27563) are qualified as quantitatively estimated non-detect values with indication of potential low bias on the reported RL values.
 5. No closing LFB was listed or run for the dilution re-analyses for sulfate in batches 580796, 580797, 580806, 580807, & 580818. Due to absence of a closing LFB, the reported results for the following sample dilutions for sulfate are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AW27421, AW27422, AW27423, AW27424, AW27425, AW27426, AW27428, AW27429, AW27431, AW27432, AW27552, AW27553, AW27555, AW27556, AW27558, AW27559, AW27560, AW27561, AW27596, AW27597, AW27598, AW27599, AW27600, & AW27562.
 6. No closing LFB was listed or run for the dilution re-analysis for chloride for batches 580788 & 580799. Due to absence of a closing LFB, the reported results for the following sample dilutions are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AW27421, AW27423, AW27424, AW27425, AW27428, AW27429, AW27596, AW27597, & AW27598.
 7. 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 laboratory fortified matrix (LFM) sample was analyzed with each batch. All acceptance criteria for accuracy were met. It is noted that a separate LFM for the sample dilution sequence for sulfate in batches 580796, 580797, 580806, 580807, & 580818 was diluted 10x prior to spiking, and the diluted LFM sample spiked at 10x normal concentration, with acceptable recovery. . It is noted that a separate LFM for the sample dilution sequence for chloride for batch 580788 was diluted 10x prior to spiking, and the diluted LFM sample spiked at 10x normal concentration, with acceptable recoveries.
 - A sample duplicate and/or laboratory fortified matrix duplicate were analyzed with each batch. All acceptance criteria for precision were met. It is noted that separate and distinct criteria for duplicate precision calculations, based on sample and duplicate anion concentrations, are used to assess precision compliance. These are as follow: if the sample and duplicate are both greater than 5x anion Reporting Limit (RL) concentration, the precision is calculated and reported as relative percent difference (RPD), with an acceptance range of 0 - 20%; if either the sample or duplicate are less than 5x anion RL, the precision is calculated and reported as the absolute value of the difference between the two concentrations, with an acceptance range of less than or equal to the anion RL value.
7. Samples AW27422, AW27425, AW27428, & AW27429 were re-analyzed for chloride at a 10X dilution, samples AW27421, AW27423, AW27424, AW27596, AW27597, & AW27598 were re-analyzed at a 20X dilution for chloride due to undiluted results exceeding the calibrated range of the detector. Samples AW27422, AW27425, AW27426, AW27428, AW27429, AW27432, AW27552, AW27553, AW27556, AW27558, AW27559, AW27560, AW27561, AW27562, & AW27600 were re-analyzed for sulfate at a 10x dilution, and samples AW27421, AW27423, AW27424, AW27431, AW27555, AW27596, AW27597, & AW27598 were re-analyzed at a 20x dilution, due to undiluted results exceeding the calibrated range of the detector. The dilution results for sulfate for these samples should be used; reporting limit (RL) values are adjusted upward to reflect the dilution factor applied.

Sample ID	Analyte	Dilution Factor
AW27422	Chloride & Sulfate	10X
AW27425	Chloride & Sulfate	10X
AW27426	Sulfate	10X
AW27428	Chloride & Sulfate	10X
AW27429	Chloride & Sulfate	10X
AW27432	Sulfate	10X
AW27552	Sulfate	10X
AW27553	Sulfate	10X
AW27556	Sulfate	10X
AW27558	Sulfate	10X
AW27559	Sulfate	10X
AW27560	Sulfate	10X



AW27561	Sulfate	10X
AW27562	Sulfate	10X
AW27600	Sulfate	10X
AW27421	Chloride & Sulfate	20X
AW27423	Chloride & Sulfate	20X
AW27424	Chloride & Sulfate	20X
AW27431	Sulfate	20X
AW27555	Sulfate	20X
AW27596	Chloride & Sulfate	20X
AW27597	Chloride & Sulfate	20X
AW27598	Chloride & Sulfate	20X

8. The raw data results are shown with dilution factors included, when dilutions are manually performed by the analyst.
The raw data results are shown without dilution factor corrections, when dilutions are run automatically by the instrument.



Metals ICP

Miller Ash Pond

WMWMILAP_1056

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
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>
AW27421	20161121C	WMWMILAP_1056
AW27422	20161121C	WMWMILAP_1056
AW27423	20161121C	WMWMILAP_1056
AW27424	20161121C	WMWMILAP_1056
AW27425	20161121C	WMWMILAP_1056
AW27426	20161121C	WMWMILAP_1056
AW27427	20161121C	WMWMILAP_1056
AW27428	20161121C	WMWMILAP_1056
AW27429	20161121D	WMWMILAP_1056
AW27430	20161121D	WMWMILAP_1056
AW27431	20161121D	WMWMILAP_1056
AW27432	20161121D	WMWMILAP_1056
AW27552	20161121D	WMWMILAP_1056
AW27553	20161121D	WMWMILAP_1056
AW27554	20161121D	WMWMILAP_1056
AW27555	20161121D	WMWMILAP_1056
AW27556	20161121D	WMWMILAP_1056
AW27557	20161121D_20161206	WMWMILAP_1056
AW27558	20161121E	WMWMILAP_1056
AW27559	20161121E	WMWMILAP_1056
AW27560	20161121E	WMWMILAP_1056
AW27561	20161121E	WMWMILAP_1056
AW27562	20161121E	WMWMILAP_1056
AW27563	20161121E	WMWMILAP_1056
AW27596	20161121E	WMWMILAP_1056
AW27597	20161121E	WMWMILAP_1056
AW27598	20161121E	WMWMILAP_1056
AW27599	20161121E	WMWMILAP_1056
AW27600	20161121F_20161206_20170106	WMWMILAP_1056



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

General Quality Control Procedures:

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

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AW27428
Calcium	AW27600

The concentrations of these analytes in the sample were greater than 3.3X the concentration of the matrix spike added during digestion, causing inaccurate spike recovery information. The laboratory control sample indicates that the digestion and analysis were in control.

Case Narrative



<u>Analyte</u>	<u>Sample ID</u>
Lithium	AW27600

The laboratory control sample indicates that the digestion and analysis were in control. Sample AW27600 was analyzed for confirmation and all acceptance criteria for accuracy met indicating there was a lack of matrix effect on the sample.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met with the following exceptions:

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AW27557

Sample, matrix spike and matrix spike duplicate were verified and passed acceptance criteria for precision indicating a lack of matrix effect on the sample.

7. All samples were analyzed without a dilution with the following exceptions: The following samples were diluted due to sample concentrations from the undiluted analysis were over the high standard of the calibration curve.

Sample ID	Analyte	Dilution Factor
AW27421	Calcium	10X
AW27423	Calcium	10X
AW27424	Calcium	10X
AW27425	Calcium	10X
AW27426	Calcium	10X
AW27428	Calcium	10X
AW27428MS	Calcium	10X
AW27428MSD	Calcium	10X
AW27429	Calcium	10x
AW27431	Calcium	10x
AW27432	Calcium	10x
AW27553	Calcium	10x
AW27555	Calcium	10x
AW27556	Calcium	10x
AW27558	Calcium	10X
AW27559	Calcium	10X
AW27560	Calcium	10X
AW27561	Calcium	10X
AW27562	Calcium	10X
AW27596	Calcium	10X
AW27597	Calcium	10X

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Case Narrative



AW27598	Calcium	10X
AW27600	Calcium	10X
AW27600MS	Calcium	10X
AW27600MSD	Calcium	10X

8. The raw data results include both results corrected for dilution and results not corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1056

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AW27421	581378	WMWMILAP_1056
AW27422	581378	WMWMILAP_1056
AW27423	581378	WMWMILAP_1056
AW27424	581378	WMWMILAP_1056
AW27425	581378	WMWMILAP_1056
AW27426	581378	WMWMILAP_1056
AW27427	581378	WMWMILAP_1056
AW27428	581403	WMWMILAP_1056
AW27429	581403	WMWMILAP_1056
AW27430	581403	WMWMILAP_1056
AW27431	581403	WMWMILAP_1056
AW27432	581403	WMWMILAP_1056
AW27552	581403	WMWMILAP_1056
AW27553	581403	WMWMILAP_1056
AW27554	581403	WMWMILAP_1056
AW27555	581403	WMWMILAP_1056
AW27556	581403	WMWMILAP_1056
AW27557	581404	WMWMILAP_1056
AW27558	581404	WMWMILAP_1056
AW27559	581404	WMWMILAP_1056
AW27560	581404	WMWMILAP_1056
AW27561	581404	WMWMILAP_1056
AW27562	581404	WMWMILAP_1056
AW27563	581404	WMWMILAP_1056
AW27596	581404	WMWMILAP_1056
AW27597	581404	WMWMILAP_1056
AW27598	581404	WMWMILAP_1056
AW27599	581417	WMWMILAP_1056
AW27600	581417	WMWMILAP_1056



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

Miller Ash Pond

WMWMILAP_1056

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AW27421	581551	WMWMILAP_1056
AW27422	581551	WMWMILAP_1056
AW27423	581551	WMWMILAP_1056
AW27424	581551	WMWMILAP_1056
AW27425	581551	WMWMILAP_1056
AW27426	581551	WMWMILAP_1056
AW27427	581777	WMWMILAP_1056
AW27428	581777	WMWMILAP_1056
AW27429	581777	WMWMILAP_1056
AW27430	581777	WMWMILAP_1056
AW27431	581777	WMWMILAP_1056
AW27432	581777	WMWMILAP_1056
AW27552	581777	WMWMILAP_1056
AW27553	581777	WMWMILAP_1056
AW27554	581777	WMWMILAP_1056
AW27555	581777	WMWMILAP_1056
AW27556	581778	WMWMILAP_1056
AW27557	581778	WMWMILAP_1056
AW27558	581778	WMWMILAP_1056
AW27559	581778	WMWMILAP_1056
AW27560	581778	WMWMILAP_1056
AW27561	581778	WMWMILAP_1056
AW27562	581778	WMWMILAP_1056
AW27563	581778	WMWMILAP_1056
AW27596	581778	WMWMILAP_1056
AW27597	581778	WMWMILAP_1056
AW27598	581779	WMWMILAP_1056
AW27599	581779	WMWMILAP_1056
AW27600	581779	WMWMILAP_1056

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

Miller Ash Pond

WMWMILAP_1056

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. All samples were received intact and properly preserved.
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>
AW27421	581219	WMWMILAP_1056
AW27422	581219	WMWMILAP_1056
AW27423	581219	WMWMILAP_1056
AW27424	581219	WMWMILAP_1056
AW27425	581219	WMWMILAP_1056
AW27426	581219	WMWMILAP_1056
AW27427	581219	WMWMILAP_1056
AW27428	581219	WMWMILAP_1056
AW27429	581219	WMWMILAP_1056
AW27430	581219	WMWMILAP_1056
AW27431	581220	WMWMILAP_1056
AW27432	581220	WMWMILAP_1056
AW27552	580942	WMWMILAP_1056
AW27553	580942	WMWMILAP_1056
AW27554	580942	WMWMILAP_1056
AW27555	580942	WMWMILAP_1056
AW27556	580942	WMWMILAP_1056
AW27557	580943	WMWMILAP_1056
AW27558	580943	WMWMILAP_1056
AW27559	580943	WMWMILAP_1056
AW27560	580943	WMWMILAP_1056
AW27561	580943	WMWMILAP_1056
AW27562	580943	WMWMILAP_1056
AW27563	580943	WMWMILAP_1056
AW27596	580943	WMWMILAP_1056
AW27597	580943	WMWMILAP_1056
AW27598	580943	WMWMILAP_1056
AW27599	580898	WMWMILAP_1056
AW27600	580898	WMWMILAP_1056



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 0.5 mg 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 2.5 mg and 200 mg residue with the exception of AW27554, AW27557, AW27563, & AW27599 which were <2.5 mg.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW27421

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	0.0111	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0235	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.586	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	266	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00889	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/15/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.128	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0209	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		100	1430	mg/L
* Chloride, Total	SES	11/4/2016	EPA 300.0		20	0.80	5.00	52.6	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.158	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		20	6.0	20	800	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW27421

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27426 Mercury, Total by CVAA	mg/L	0.0000581	0.0005	0.004	0.00379	0.00384	0.00393	0.0034 to 0.0046	94.9	70 to 130	1.10	20	
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115	90.4	70 to 130	3.52	20	
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115	92.3	70 to 130	0.608	20	
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115	92.6	70 to 130	4.97	20	
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	20	
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115	94.2	70 to 130	0.240	20	
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115	96.4	70 to 130	1.60	20	
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115	95.3	70 to 130	7.39	20	
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115	90.2	70 to 130	4.14	20	
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115	87.3	70 to 130	0.211	20	
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115	92.0	70 to 130	6.21	20	
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115	89.2	70 to 130	0.134	20	
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115	92.2	70 to 130	5.34	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AW27421

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	LFB	Rec	Prec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	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, 2017

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW27422

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00224	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0730	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.190	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	4.04	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/15/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.161	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0280	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		50	572	mg/L
* Chloride, Total	SES	11/1/2016	EPA 300.0		1	0.04	0.25	24.4	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.157	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	94.9	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW27422

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115	90.4	70 to 130	3.52	20	
AW27426 Mercury, Total by CVAA	mg/L	0.0000581	0.0005	0.004	0.00379	0.00384	0.00393	0.0034 to 0.0046	94.9	70 to 130	1.10	20	
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115	92.3	70 to 130	0.608	20	
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115	92.6	70 to 130	4.97	20	
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115	95.3	70 to 130	7.39	20	
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115	90.2	70 to 130	4.14	20	
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115	87.3	70 to 130	0.211	20	
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115	92.0	70 to 130	6.21	20	
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115	89.2	70 to 130	0.134	20	
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115	92.2	70 to 130	5.34	20	
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115	94.2	70 to 130	0.240	20	
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115	96.4	70 to 130	1.60	20	
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	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
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AW27422

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW27423

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0141	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.571	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	305	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	J 0.000239	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0374	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/15/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.104	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		100	1510	mg/L
* Chloride, Total	SES	11/4/2016	EPA 300.0		20	0.80	5.00	49.7	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.163	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		20	6.0	20	933	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW27423

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit	
			Limit	Spike				Limit	Rec	Limit	Prec			
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115		90.4	70 to 130		3.52	20
AW27426 Mercury, Total by CVAA	mg/L	0.0000581	0.0005	0.004	0.00379	0.00384	0.00393	0.0034 to 0.0046		94.9	70 to 130		1.10	20
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15		95.5	70 to 130		0.00	20
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75		37.2	70 to 130		0.00	20
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23		108	70 to 130		0.342	20
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115		92.3	70 to 130		0.608	20
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115		92.6	70 to 130		4.97	20
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115		89.2	70 to 130		0.134	20
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115		92.2	70 to 130		5.34	20
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115		95.3	70 to 130		7.39	20
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115		90.2	70 to 130		4.14	20
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115		87.3	70 to 130		0.211	20
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115		92.0	70 to 130		6.21	20
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115		94.2	70 to 130		0.240	20
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115		96.4	70 to 130		1.60	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AW27423

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Expiration: June 30, 2017

Comments:

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW27424

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0144	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.569	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	303	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	J 0.000249	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0365	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/15/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.104	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		100	1580	mg/L
* Chloride, Total	SES	11/4/2016	EPA 300.0		20	0.80	5.00	48.9	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.170	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		20	6.0	20	916	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW27424

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115	90.4	70 to 130	3.52	20	
AW27426 Mercury, Total by CVAA	mg/L	0.0000581	0.0005	0.004	0.00379	0.00384	0.00393	0.0034 to 0.0046	94.9	70 to 130	1.10	20	
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115	94.2	70 to 130	0.240	20	
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115	96.4	70 to 130	1.60	20	
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	20	
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115	89.2	70 to 130	0.134	20	
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115	92.2	70 to 130	5.34	20	
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115	95.3	70 to 130	7.39	20	
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115	90.2	70 to 130	4.14	20	
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115	87.3	70 to 130	0.211	20	
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115	92.0	70 to 130	6.21	20	
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115	92.3	70 to 130	0.608	20	
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115	92.6	70 to 130	4.97	20	

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AW27424

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW27425

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0265	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.838	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	137	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0605	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/15/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.0841	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00590	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		50	862	mg/L
* Chloride, Total	SES	11/1/2016	EPA 300.0		1	0.04	0.25	26.0	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	521	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW27425

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115	90.4	70 to 130	3.52	20	
AW27426 Mercury, Total by CVAA	mg/L	0.0000581	0.0005	0.004	0.00379	0.00384	0.00393	0.0034 to 0.0046	94.9	70 to 130	1.10	20	
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115	94.2	70 to 130	0.240	20	
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115	96.4	70 to 130	1.60	20	
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115	89.2	70 to 130	0.134	20	
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115	92.2	70 to 130	5.34	20	
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	20	
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115	92.3	70 to 130	0.608	20	
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115	92.6	70 to 130	4.97	20	
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115	95.3	70 to 130	7.39	20	
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115	90.2	70 to 130	4.14	20	
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115	87.3	70 to 130	0.211	20	
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115	92.0	70 to 130	6.21	20	

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Laboratory certification ID: E571114

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Comments:

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AW27425

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20

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Laboratory certification ID: E571114

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Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW27426

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00261	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0124	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	3.32	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	122	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00289	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/15/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.181	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0971	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		100	1360	mg/L
* Chloride, Total	SES	11/1/2016	EPA 300.0		1	0.04	0.25	6.36	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.260	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	741	mg/L

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Comments:

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 Calera, AL 35040
 (205) 664-6032 or 6171
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW27426

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115	90.4	70 to 130	3.52	20	
AW27426 Mercury, Total by CVAA	mg/L	0.0000581	0.0005	0.004	0.00379	0.00384	0.00393	0.0034 to 0.0046	94.9	70 to 130	1.10	20	
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115	94.2	70 to 130	0.240	20	
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115	96.4	70 to 130	1.60	20	
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	20	
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115	92.3	70 to 130	0.608	20	
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115	92.6	70 to 130	4.97	20	
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115	89.2	70 to 130	0.134	20	
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115	92.2	70 to 130	5.34	20	
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115	95.3	70 to 130	7.39	20	
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115	90.2	70 to 130	4.14	20	
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115	87.3	70 to 130	0.211	20	
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115	92.0	70 to 130	6.21	20	

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AW27426

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Expiration: June 30, 2017

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW27427

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.101	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.204	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	38.4	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	J 0.0210	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		25	265	mg/L
* Chloride, Total	SES	11/1/2016	EPA 300.0		1	0.04	0.25	17.3	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.018	mg/L
* Sulfate, Total	SES	11/1/2016	EPA 300.0		1	0.3	1	80.6	mg/L

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Comments:

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW27427

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	20	
AW27427 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0892	0.0893	0.0927	0.085 to 0.115	89.2	70 to 130	0.134	20	
AW27427 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0922	0.0874	0.0984	0.085 to 0.115	92.2	70 to 130	5.34	20	
AW27427 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0953	0.0885	0.0986	0.085 to 0.115	95.3	70 to 130	7.39	20	
AW27427 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0902	0.0940	0.0967	0.085 to 0.115	90.2	70 to 130	4.14	20	
AW27427 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0873	0.0875	0.0897	0.085 to 0.115	87.3	70 to 130	0.211	20	
AW27427 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0920	0.0865	0.0972	0.085 to 0.115	92.0	70 to 130	6.21	20	
AW27427 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0942	0.0940	0.0919	0.085 to 0.115	94.2	70 to 130	0.240	20	
AW27427 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0964	0.0949	0.0980	0.085 to 0.115	96.4	70 to 130	1.60	20	
AW27427 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.193	0.194	0.0972	0.085 to 0.115	92.3	70 to 130	0.608	20	
AW27427 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.0926	0.0973	0.101	0.085 to 0.115	92.6	70 to 130	4.97	20	
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27427 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0904	0.0937	0.0926	0.085 to 0.115	90.4	70 to 130	3.52	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AW27427

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW27428

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0277	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	3.25	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	163	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0152	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.0759	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0458	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		100	1010	mg/L
* Chloride, Total	SES	11/4/2016	EPA 300.0		10	0.40	2.50	25.9	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.068	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	610	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, 2017

Comments: Recovery for Calcium failed. The spike amount was less than 30% of the sample amount.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW27428

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27428 Calcium, Total	mg/L	-0.0887	0.22	5.00	164	164	4.67	4.25 to 5.75	37.2	70 to 130	0.00	20	
AW27428 Lithium, Total	mg/L	0.000354	0.022	0.20	0.292	0.293	0.196	0.17 to 0.23	108	70 to 130	0.342	20	
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27428 Boron, Total	mg/L	0.00212	0.044	1.00	4.20	4.20	0.945	0.85 to 1.15	95.5	70 to 130	0.00	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	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, 2017

Comments: Recovery for Calcium failed. The spike amount was less than 30% of the sample amount.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AW27428

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium failed. The spike amount was less than 30% of the sample amount.

CC:

Alabama Power General Test Laboratory
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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AW27429

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0274	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	3.24	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	158	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0145	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.0778	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0455	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		100	1020	mg/L
* Chloride, Total	SES	11/4/2016	EPA 300.0		10	0.40	2.50	26.0	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.068	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	617	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AW27429

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB	Rec		Prec	Prec
			Limit	Spike					Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AW27429

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3		6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0		42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27427	Solids, Dissolved	mg/L	-2.00	25				261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77		0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW27430

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0760	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.153	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	28.6	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	J 0.0221	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		25	213	mg/L
* Chloride, Total	SES	11/1/2016	EPA 300.0		1	0.04	0.25	6.50	mg/L
* Fluoride, Total	SES	11/1/2016	EPA 300.0		1	0.01	0.3	J 0.074	mg/L
* Sulfate, Total	SES	11/1/2016	EPA 300.0		1	0.3	1	42.7	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW27430

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 31-Oct-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AW27430

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec			
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit	
AW27430	Sulfate, Total	mg/L	-1.60	1.0	20.00	60.0	42.2	20.3	18 to 22	86.5	80 to 120	1.18	20
AW27430	Chloride, Total	mg/L	0.000	0.25	10.00	16.3	6.55	9.89	9 to 11	98.0	80 to 120	0.766	20
AW27427	Solids, Dissolved	mg/L	-2.00	25			261	46.0	40 to 60			0.760	5
AW27430	Fluoride, Total	mg/L	0.000	0.3	2.00	1.77	0.067		1.8 to 2.2	84.8	80 to 120	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW27431

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00203	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0211	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	2.21	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	160	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.204	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0329	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		125	1580	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	8.62	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	0.502	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		20	6.0	20	829	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW27431

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AW27431

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27432	Fluoride, Total	mg/L	0.000	0.3	2.00	1.66	0.034		1.8 to 2.2	81.6	80 to 120	19.4	20
AW27432	Solids, Dissolved	mg/L	-2.0	25			403	46.0	40 to 60			0.624	5
AW27432	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.0	9.88	9 to 11	95.0	80 to 120	0.00	20
AW27432	Sulfate, Total	mg/L	-1.60	1.0	200	290	87.4	20.4	18 to 22	101	80 to 120	0.457	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

CC:

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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW27432

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00315	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0744	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.108	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	51.8	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00214	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	J 0.0442	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/8/2016	SM 2540C		1		25	398	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	12.0	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.028	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	87.8	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW27432

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 01-Nov-16

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AW27432

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27432	Fluoride, Total	mg/L	0.000	0.3	2.00	1.66	0.034		1.8 to 2.2	81.6	80 to 120	19.4	20
AW27432	Solids, Dissolved	mg/L	-2.0	25			403	46.0	40 to 60			0.624	5
AW27432	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.0	9.88	9 to 11	95.0	80 to 120	0.00	20
AW27432	Sulfate, Total	mg/L	-1.60	1.0	200	290	87.4	20.4	18 to 22	101	80 to 120	0.457	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, 2017

Comments:

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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW27552

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00333	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0201	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	J 0.0837	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	14.3	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0203	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.0825	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		25	305	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	7.70	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.078	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	108	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW27552

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AW27552

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27556	Solids, Dissolved	mg/L	-2.0	25			1160	49.0	40 to 60			0.172	5
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW27553

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00210	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0132	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.671	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	58.0	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0168	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.0733	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		50	800	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	9.34	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.046	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	470	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW27553

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AW27553

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27556	Solids, Dissolved	mg/L	-2.0	25			1160	49.0	40 to 60			0.172	5
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20

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Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27554

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	11/2/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27554

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27554

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27556	Solids, Dissolved	mg/L	-2.0	25			1160	49.0	40 to 60			0.172	5
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW27555

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00197	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0186	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	J 0.0959	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	213	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0813	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.172	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		125	2180	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	4.99	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		20	6.0	20	1430	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW27555

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27555 Mercury, Total by CVAA	mg/L	0.0000827	0.0005	0.004	0.00397	0.00396	0.00400	0.0034 to 0.0046	99.2	70 to 130	0.0555	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AW27555

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27556	Solids, Dissolved	mg/L	-2.0	25			1160	49.0	40 to 60			0.172	5
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW27556

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0375	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	J 0.0266	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	158	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.116	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		100	1160	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	7.32	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.038	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	619	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW27556

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27556 Antimony, Total	mg/L	0.000103	0.00132	0.10	0.0971	0.0999	0.0919	0.085 to 0.115	97.1	70 to 130	2.80	20	
AW27556 Cobalt, Total	mg/L	0.0000133	0.0044	0.10	0.0891	0.0920	0.0927	0.085 to 0.115	89.1	70 to 130	3.12	20	
AW27556 Lead, Total	mg/L	0.0000767	0.0022	0.10	0.0940	0.0910	0.0972	0.085 to 0.115	94.0	70 to 130	3.14	20	
AW27556 Chromium, Total	mg/L	0.0000145	0.0044	0.10	0.0872	0.0896	0.0897	0.085 to 0.115	87.2	70 to 130	2.65	20	
AW27556 Selenium, Total	mg/L	0.0000366	0.0044	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	1.72	20	
AW27556 Thallium, Total	mg/L	0.0000705	0.00044	0.10	0.0945	0.0918	0.0984	0.085 to 0.115	94.5	70 to 130	2.83	20	
AW27556 Barium, Total	mg/L	0.0000254	0.0044	0.10	0.128	0.129	0.0972	0.085 to 0.115	90.8	70 to 130	0.857	20	
AW27556 Beryllium, Total	mg/L	0.000145	0.00132	0.10	0.0940	0.0926	0.0986	0.085 to 0.115	94.0	70 to 130	1.48	20	
AW27556 Molybdenum, Total	mg/L	0.0000271	0.0044	0.10	0.0929	0.0929	0.0926	0.085 to 0.115	92.9	70 to 130	0.0094620	20	
AW27556 Cadmium, Total	mg/L	0.0000206	0.00044	0.10	0.0910	0.0902	0.0967	0.085 to 0.115	91.0	70 to 130	0.823	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27556 Arsenic, Total	mg/L	0.0000255	0.0022	0.10	0.0971	0.0992	0.0980	0.085 to 0.115	97.1	70 to 130	2.19	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AW27556

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27556	Solids, Dissolved	mg/L	-2.0	25			1160	49.0	40 to 60			0.172	5
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27557

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	11/2/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Precision for Calcium failed. Sample was reanalyzed and precision passed indicating that there was no matrix effect.

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27557

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27557 Calcium, Total	mg/L	-0.0907	0.22	5.00	3.66	4.77	4.56	4.25 to 5.75	73.2	70 to 130	26.3	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27557 Boron, Total	mg/L	0.0113	0.044	1.00	0.973	0.981	0.960	0.85 to 1.15	97.3	70 to 130	0.819	20	
AW27557 Lithium, Total	mg/L	0.000666	0.022	0.200	0.192	0.200	0.196	0.17 to 0.23	96.0	70 to 130	4.08	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Precision for Calcium failed. Sample was reanalyzed and precision passed indicating that there was no matrix effect.

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27557

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	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, 2017

Comments: Precision for Calcium failed. Sample was reanalyzed and precision passed indicating that there was no matrix effect.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW27558

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00239	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0380	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.697	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	78.0	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.150	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0262	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		50	626	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	21.1	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.080	mg/L
* Sulfate, Total	SES	11/4/2016	EPA 300.0		10	3.0	10	251	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW27558

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AW27558

Sample	Analysis	Units MB	MB Limit	Spike	LFM	Sample Duplicate	LFB LFB	LFB Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
AW27561	Fluoride, Total	mg/L -0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27561	Sulfate, Total	mg/L -1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Chloride, Total	mg/L 0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L -2.0	25			908	49.0	40 to 60			0.656	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW27559

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00177	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0316	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.745	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	106	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.117	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0120	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		50	746	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	22.4	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.014	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		10	3.0	10	342	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW27559

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AW27559

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW27560

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0285	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	1.47	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	77.2	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	J 0.0413	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0393	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		100	888	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	16.2	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.259	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		10	3.0	10	471	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW27560

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AW27560

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW27561

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00132	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0521	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	1.04	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	58.0	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00318	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	J 0.0389	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0228	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		50	738	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	13.1	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.151	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		10	3.0	10	389	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW27561

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Alabama Power General Test Laboratory
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 (205) 664-6032 or 6171
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 01-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AW27561

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27561	Chloride, Total	mg/L	0.000	0.25	10.00	22.8	13.1	9.92	9 to 11	97.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27561	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.79	0.150		1.8 to 2.2	82.0	80 to 120	0.664	20
AW27561	Sulfate, Total	mg/L	-1.59	1.0	200.00	598	387	20.2	18 to 22	104	80 to 120	0.515	20

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW27562

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0175	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.293	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	83.8	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00760	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.181	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		100	1150	mg/L
* Chloride, Total	SES	11/2/2016	EPA 300.0		1	0.04	0.25	10.2	mg/L
* Fluoride, Total	SES	11/2/2016	EPA 300.0		1	0.01	0.3	J 0.047	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		10	3.0	10	794	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW27562

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AW27562

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670	460	20.3	18 to 22	104	80 to 120	0.434	20
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.1	9.89	9 to 11	94.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625	0.026		1.8 to 2.2	80.0	80 to 120	8.00	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27563

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	11/3/2016	EPA 300.0		1	0.04	0.25	J 0.169	mg/L
* Fluoride, Total	SES	11/3/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	11/3/2016	EPA 300.0		1	0.3	1	U Not Detected	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, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27563

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AW27563

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670	460	20.3	18 to 22	104	80 to 120	0.434	20
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.1	9.89	9 to 11	94.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625	0.026		1.8 to 2.2	80.0	80 to 120	8.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW27596

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	0.0129	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0154	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.909	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	305	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.229	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0665	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		125	1640	mg/L
* Chloride, Total	SES	11/5/2016	EPA 300.0		20	0.80	5.00	44.1	mg/L
* Fluoride, Total	SES	11/3/2016	EPA 300.0		1	0.01	0.3	J 0.164	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		20	6.0	20	1000	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW27596

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AW27596

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670	460	20.3	18 to 22	104	80 to 120	0.434	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625	0.026		1.8 to 2.2	80.0	80 to 120	8.00	20
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.1	9.89	9 to 11	94.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: AW27597

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	0.0123	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0148	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.915	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	314	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.230	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0644	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		125	1650	mg/L
* Chloride, Total	SES	11/5/2016	EPA 300.0		20	0.80	5.00	43.8	mg/L
* Fluoride, Total	SES	11/3/2016	EPA 300.0		1	0.01	0.3	J 0.162	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		20	6.0	20	993	mg/L

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Comments:

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: AW27597

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW27597 Mercury, Total by CVAA	mg/L	0.0000846	0.0005	0.004	0.00388	0.00380	0.00401	0.0034 to 0.0046	97.0	70 to 130	2.13	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

Comments:

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: AW27597

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670		460	20.3	18 to 22	104	80 to 120	0.434	20
AW27598	Solids, Dissolved	mg/L	-2.0	25				908	49.0	40 to 60			0.656	5
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625		0.026		1.8 to 2.2	80.0	80 to 120	8.00	20
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5		12.1	9.89	9 to 11	94.0	80 to 120	0.00	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW27598

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00438	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0781	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	0.460	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	61.3	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.179	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00605	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	DLJ	11/7/2016	SM 2540C		1		100	920	mg/L
* Chloride, Total	SES	11/5/2016	EPA 300.0		20	0.80	5.00	30.2	mg/L
* Fluoride, Total	SES	11/3/2016	EPA 300.0		1	0.01	0.3	0.627	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		20	6.0	20	345	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW27598

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW28082 Mercury, Total by CVAA	mg/L	0.0000853	0.0005	0.004	0.00407	0.00402	0.00406	0.0034 to 0.0046	102	70 to 130	1.10	20	
AW27598 Barium, Total	mg/L	0.0000259	0.0044	0.10	0.172	0.163	0.0926	0.085 to 0.115	93.7	70 to 130	5.19	20	
AW27598 Lead, Total	mg/L	0.0000693	0.0022	0.10	0.0883	0.0902	0.0960	0.085 to 0.115	88.3	70 to 130	2.18	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW27598 Antimony, Total	mg/L	0.000135	0.00132	0.10	0.0961	0.0954	0.0949	0.085 to 0.115	96.1	70 to 130	0.707	20	
AW27598 Cobalt, Total	mg/L	0.0000215	0.0044	0.10	0.0901	0.0877	0.0910	0.085 to 0.115	90.1	70 to 130	2.68	20	
AW27598 Beryllium, Total	mg/L	0.000112	0.00132	0.10	0.0888	0.0903	0.0930	0.085 to 0.115	88.8	70 to 130	1.68	20	
AW27598 Chromium, Total	mg/L	0.0000265	0.0044	0.10	0.0857	0.0847	0.0877	0.085 to 0.115	85.7	70 to 130	1.14	20	
AW27598 Selenium, Total	mg/L	0.0000353	0.0044	0.10	0.0955	0.0977	0.103	0.085 to 0.115	95.5	70 to 130	2.29	20	
AW27598 Thallium, Total	mg/L	0.0000613	0.00044	0.10	0.0880	0.0896	0.0967	0.085 to 0.115	88.0	70 to 130	1.78	20	
AW27598 Arsenic, Total	mg/L	0.0000266	0.0022	0.10	0.100	0.0987	0.0976	0.085 to 0.115	95.8	70 to 130	1.53	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW27598 Cadmium, Total	mg/L	0.0000204	0.00044	0.10	0.0901	0.0860	0.0924	0.085 to 0.115	90.1	70 to 130	4.61	20	
AW27598 Molybdenum, Total	mg/L	0.0000397	0.0044	0.10	0.0996	0.0947	0.0922	0.085 to 0.115	93.6	70 to 130	5.10	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AW27598

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
			Limit	Limit			Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.1	9.89	9 to 11	94.0	80 to 120	0.00	20
AW27598	Solids, Dissolved	mg/L	-2.0	25			908	49.0	40 to 60			0.656	5
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625	0.026		1.8 to 2.2	80.0	80 to 120	8.00	20
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670	460	20.3	18 to 22	104	80 to 120	0.434	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW27599

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	11/7/2016	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	11/3/2016	EPA 300.0		1	0.04	0.25	J 0.169	mg/L
* Fluoride, Total	SES	11/3/2016	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	11/3/2016	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW27599

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW28083 Chromium, Total	mg/L	0.0000141	0.0044	0.10	0.0852	0.0865	0.0885	0.085 to 0.115	85.2	70 to 130	1.51	20	
AW27599 Boron, Total	mg/L	0.00359	0.044	1.00	0.981	0.998	0.945	0.85 to 1.15	98.1	70 to 130	1.72	20	
AW28083 Cadmium, Total	mg/L	0.00000986	0.00044	0.10	0.0908	0.0903	0.0950	0.085 to 0.115	90.8	70 to 130	0.552	20	
AW28083 Arsenic, Total	mg/L	0.0000237	0.0022	0.10	0.0947	0.0960	0.0984	0.085 to 0.115	94.7	70 to 130	1.34	20	
AW28083 Lead, Total	mg/L	0.0000733	0.0022	0.10	0.0876	0.0880	0.0913	0.085 to 0.115	87.6	70 to 130	0.367	20	
AW28082 Mercury, Total by CVAA	mg/L	0.0000853	0.0005	0.004	0.00407	0.00402	0.00406	0.0034 to 0.0046	102	70 to 130	1.10	20	
AW28083 Cobalt, Total	mg/L	0.0000155	0.0044	0.10	0.0886	0.0898	0.0913	0.085 to 0.115	88.6	70 to 130	1.41	20	
AW28083 Selenium, Total	mg/L	0.0000464	0.0044	0.10	0.0997	0.101	0.113	0.085 to 0.115	99.7	70 to 130	1.34	20	
AW27599 Calcium, Total	mg/L	-0.0906	0.22	5.00	4.09	4.49	4.63	4.25 to 5.75	81.8	70 to 130	9.32	20	
AW28083 Antimony, Total	mg/L	0.000143	0.00132	0.10	0.0939	0.0959	0.0953	0.085 to 0.115	93.9	70 to 130	2.09	20	
AW28083 Beryllium, Total	mg/L	0.000133	0.00132	0.10	0.0875	0.0890	0.0880	0.085 to 0.115	87.5	70 to 130	1.70	20	
AW28083 Thallium, Total	mg/L	0.0000581	0.00044	0.10	0.0907	0.0883	0.0925	0.085 to 0.115	90.7	70 to 130	2.70	20	
AW27599 Lithium, Total	mg/L	0.000569	0.022	0.20	0.184	0.195	0.196	0.17 to 0.23	92.0	70 to 130	5.80	20	
AW28083 Barium, Total	mg/L	0.0000139	0.0044	0.10	0.136	0.135	0.0946	0.085 to 0.115	93.6	70 to 130	0.840	20	
AW28083 Molybdenum, Total	mg/L	0.0000417	0.0044	0.10	0.0903	0.0915	0.0929	0.085 to 0.115	90.3	70 to 130	1.33	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AW27599

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec			
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit	
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670	460	20.3	18 to 22	104	80 to 120	0.434	20
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625	0.026		1.8 to 2.2	80.0	80 to 120	8.00	20
AW27693	Solids, Dissolved	mg/L	-4.0	25			128	41.0	40 to 60			0.00	5
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.1	9.89	9 to 11	94.0	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW27600

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	J 0.00321	mg/L
* Barium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0578	mg/L
* Beryllium, Total	JHK	11/14/2016	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	11/21/2016	EPA 200.7		1	0.02	0.1	J 0.0670	mg/L
* Calcium, Total	HRG	11/21/2016	EPA 200.7		10	1.0	5.0	114	mg/L
* Cadmium, Total	JHK	11/14/2016	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	J 0.00481	mg/L
* Mercury, Total by CVAA	MCW	11/17/2016	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	11/21/2016	EPA 200.7		1	0.01	0.05	0.137	mg/L
* Molybdenum, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	0.0107	mg/L
* Lead, Total	JHK	11/14/2016	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	11/14/2016	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	11/14/2016	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	11/7/2016	SM 2540C		1		100	888	mg/L
* Chloride, Total	SES	11/3/2016	EPA 300.0		1	0.04	0.25	12.1	mg/L
* Fluoride, Total	SES	11/3/2016	EPA 300.0		1	0.01	0.3	J 0.024	mg/L
* Sulfate, Total	SES	11/5/2016	EPA 300.0		10	3.0	10	462	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium failed. The spike amount was less than 30% the sample concentration.
 Precision and Recovery failed for Lithium. Sample was reanalyzed and passed, indicating no matrix effect on the sample.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW27600

Sample Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	Spike				Limit	Rec	Limit	Prec		
AW28083 Antimony, Total	mg/L	0.000143	0.00132	0.10	0.0939	0.0959	0.0953	0.085 to 0.115	93.9	70 to 130	2.09	20	
AW28083 Chromium, Total	mg/L	0.0000141	0.0044	0.10	0.0852	0.0865	0.0885	0.085 to 0.115	85.2	70 to 130	1.51	20	
AW27600 Lithium, Total	mg/L	0.000313	0.022	0.20	0.273	0.340	0.195	0.17 to 0.23	67.6	70 to 130	21.9	20	
AW28083 Arsenic, Total	mg/L	0.0000237	0.0022	0.10	0.0947	0.0960	0.0984	0.085 to 0.115	94.7	70 to 130	1.34	20	
AW28083 Lead, Total	mg/L	0.0000733	0.0022	0.10	0.0876	0.0880	0.0913	0.085 to 0.115	87.6	70 to 130	0.367	20	
AW27600 Calcium, Total	mg/L	-0.0822	0.22	5.00	117	119	4.53	4.25 to 5.75	58.9	70 to 130	1.69	20	
AW28083 Cadmium, Total	mg/L	0.00000986	0.00044	0.10	0.0908	0.0903	0.0950	0.085 to 0.115	90.8	70 to 130	0.552	20	
AW27600 Boron, Total	mg/L	0.00651	0.044	1.00	1.00	1.06	0.969	0.85 to 1.15	93.3	70 to 130	5.83	20	
AW28082 Mercury, Total by CVAA	mg/L	0.0000853	0.0005	0.004	0.00407	0.00402	0.00406	0.0034 to 0.0046	102	70 to 130	1.10	20	
AW28083 Cobalt, Total	mg/L	0.0000155	0.0044	0.10	0.0886	0.0898	0.0913	0.085 to 0.115	88.6	70 to 130	1.41	20	
AW28083 Selenium, Total	mg/L	0.0000464	0.0044	0.10	0.0997	0.101	0.113	0.085 to 0.115	99.7	70 to 130	1.34	20	
AW28083 Barium, Total	mg/L	0.0000139	0.0044	0.10	0.136	0.135	0.0946	0.085 to 0.115	93.6	70 to 130	0.840	20	
AW28083 Molybdenum, Total	mg/L	0.0000417	0.0044	0.10	0.0903	0.0915	0.0929	0.085 to 0.115	90.3	70 to 130	1.33	20	
AW28083 Beryllium, Total	mg/L	0.000133	0.00132	0.10	0.0875	0.0890	0.0880	0.085 to 0.115	87.5	70 to 130	1.70	20	
AW28083 Thallium, Total	mg/L	0.0000581	0.00044	0.10	0.0907	0.0883	0.0925	0.085 to 0.115	90.7	70 to 130	2.70	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery for Calcium failed. The spike amount was less than 30% the sample concentration.
 Precision and Recovery failed for Lithium. Sample was reanalyzed and passed, indicating no matrix effect on the sample.

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



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 02-Nov-16
 Customer ID:
 Delivery Date: 02-Nov-16

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AW27600

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample		LFB Limit	Rec		Prec Limit	
							Duplicate	LFB		Rec	Limit		
AW27600	Sulfate, Total	mg/L	-1.60	1.0	200.00	670	460	20.3	18 to 22	104	80 to 120	0.434	20
AW27600	Fluoride, Total	mg/L	-0.051	0.3	2.00	1.625	0.026		1.8 to 2.2	80.0	80 to 120	8.00	20
AW27693	Solids, Dissolved	mg/L	-4.0	25			128	41.0	40 to 60			0.00	5
AW27600	Chloride, Total	mg/L	0.000	0.25	10.00	21.5	12.1	9.89	9 to 11	94.0	80 to 120	0.00	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, 2017

Comments: Recovery for Calcium failed. The spike amount was less than 30% the sample concentration.
 Precision and Recovery failed for Lithium. Sample was reanalyzed and passed, indicating no matrix effect on the sample.

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 11/01/2016 15:00

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	SmarTroll ID used for samples collected on 11/1/2016 - 4696-23443-3-2

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	10/31/2016	11:38	3	Groundwater		AW27426
MW-15	10/31/2016	13:00	3	Groundwater		AW27427
MW-16	10/31/2016	14:40	3	Groundwater		AW27428
MW-16 Dup	10/31/2016	14:40	3	Sample Duplicate		AW27429
MW-14	10/31/2016	16:03	3	Groundwater		AW27430
MW-12	11/01/2016	09:35	3	Groundwater		AW27431
MW-13D	11/01/2016	10:55	3	Groundwater		AW27432

Relinquished By	Received By	Date/Time
		11/01/2016 11:43
	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.01 17:09:37 -05'00'</small>	11/01/2016 17:09

SmarTroll ID	4696-23444-3-3
Turbidity ID	4677-23342-4-1

All metals and radiological bottles have pH < 2

Cooler Temp	0.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	5521-28273-20-17



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 11/01/2016 15:00

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	Radium duplicate collected MW6

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW3D	10/31/2016	14:15	3	Groundwater		AW27421
MW3S	10/31/2016	15:40	3	Groundwater		AW27422
MW4	11/01/2016	08:59	3	Groundwater		AW27423
MW4 DUP	11/01/2016	08:59	3	Sample Duplicate		AW27424
MW6	11/01/2016	10:08	5	Groundwater		AW27425

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	<i>[Signature]</i>	11/01/2016 10:57
<i>[Signature]</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.01 17:11:38 -05'00'</small>	11/01/2016 17:11

SmarTroll ID	4696-23441-1-1
Turbidity ID	3901-20010-2-2

All metals and radiological bottles have pH < 2

Cooler Temp	0.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	5521-28273-20-17



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

- Field Complete
- Lab Complete

Lab ETA 11/02/2016 15:00

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments	Radium duplicate collected at MW-13S		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-13S	11/01/2016	12:53	5	Groundwater		AW27552
MW-9D	11/01/2016	14:38	3	Groundwater		AW27553
FB-1	11/01/2016	14:53	3	Field Blank		AW27554

Relinquished By Ben Rothschald	Received By Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.02 15:20:09 -05'00'</small>	Date/Time 11/02/2016 11:42 11/02/2016 15:20
--	--	---

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp Thermometer ID pH Strip ID	
Turbidity ID	4677-23342-4-1		1.7 degrees C
			5408-27568-2-2
			5521-28272-20-16

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

- Field Complete
- Lab Complete

Lab ETA 11/02/2016 14:00

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Nick Pitts"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle"/>		
Comments	<input style="height: 30px;" type="text"/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	11/01/2016	12:00	3	Groundwater		AW27555
MW-11	11/01/2016	13:53	3	Groundwater		AW27556
FB-2	11/01/2016	14:25	3	Field Blank		AW27557

Relinquished By	Received By	Date/Time
<i>Ben Pitts</i>	<i>Ben Rottschall</i>	11/02/2016 12:20
<i>Ben Rottschall</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.02 15:22:26 -05'00'</small>	11/02/2016 15:22

SmarTroll ID	<input type="text" value="5141-26150-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20009-2-1"/>	Cooler Temp
		<input type="text" value="1.7 degrees C"/>
		Thermometer ID
		<input type="text" value="5408-27568-2-2"/>
		pH Strip ID
		<input type="text" value="5521-28272-20-16"/>



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 11/02/2016 15:15

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments			

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	11/02/2016	10:15	3	Groundwater		AW27596
MW-5 Dup	11/02/2016	10:15	3	Sample Duplicate		AW27597
PZ-5	11/02/2016	12:08	3	Groundwater		AW27598
EB-1	11/02/2016	12:45	3	Equipment Blank		AW27599

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.02 17:11:32 -05'00'</small>	11/02/2016 17:11

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

All metals and radiological bottles have pH < 2

Cooler Temp	2.6 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	5521-28273-20-17



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA **11/02/2016 15:30**

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, John Pugh, Greg Dyer
	Jeff K. Baker		Greg Dyer
	Nick Pitts		Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments			

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	11/02/2016	13:10	3	Groundwater		AW27600

Relinquished By 	Received By Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.02 17:13:02 -05'00'</small>	Date/Time 11/02/2016 17:13

SmarTroll ID	5141-26150-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	5521-28272-20-16	



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete


Lab ETA 11/02/2016 14:30

Requested Complete Date	Routine
Site Representative	Jeff K. Baker
Collector	Ben Rothschild

Results To	Dustin Brooks, John Pugh, Greg Dyer
Requested By	Greg Dyer
Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW7S	11/01/2016	11:33	3	Groundwater		AW27558
MW7D	11/01/2016	12:40	3	Groundwater		AW27559
MW8S	11/01/2016	14:00	3	Groundwater		AW27560
MW8D	11/01/2016	15:00	3	Groundwater		AW27561
MW9S	11/02/2016	10:25	3	Groundwater		AW27562
FB3	11/02/2016	11:30	3	Field Blank		AW27563

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland Date: 2016.11.02 15:23:54 -05'00'</small>	11/02/2016 15:23

SmarTroll ID	4696-23441-1-1
Turbidity ID	3901-20010-2-2

All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Cooler Temp	1.7 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	5521-28272-20-16

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: 400-129905-1

TestAmerica Sample Delivery Group: Miller Ash Pond (3)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

12/24/2016 10:43:05 AM

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 Miller

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

Job ID: 400-129905-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-129905-1

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-279371: the following samples were reduced due to insufficient sample volume AW27421 MW-3D (400-129905-1), AW27422 MW-3S (400-129905-2), AW27423 MW-4 (400-129905-3), AW27424 MW-4 DUP (400-129905-4), AW27425 MW-6 (400-129905-5), AW27425 MW-6 (400-129905-5[DUJ]), AW27426 MW-10 (400-129905-6), AW27427 MW-15 (400-129905-7), AW27428 MW-16 (400-129905-8), AW27429 MW-16 DUP (400-129905-9), AW27430 MW-14 (400-129905-10), AW27431 MW-12 (400-129905-11), AW27432 MW-13D (400-129905-12), AW27553 MW-9D (400-129905-14), AW27554 FB-1 (400-129905-15), AW27555 MW-2 (400-129905-16), AW27556 MW-11 (400-129905-17), AW27557 FB-2 (400-129905-18), AW27558 MW-7S (400-129905-19) and AW27559 MW-7D (400-129905-20).

Method(s) PrecSep_0: Radium-228 Prep Batch 160-279386: the following samples were prepared at a reduced aliquot due to insufficient volume AW27552 MW-13S (400-129905-13[DUJ]), AW27560 MW-8S (400-129905-21), AW27561 MW-8D (400-129905-22), AW27562 MW-9S (400-129905-23), AW27563 FB-3 (400-129905-24), AW27596 MW-5 (400-129905-25), AW27597 MW-5 DUP (400-129905-26), AW27598 PZ5 (400-129905-27), AW27599 EB-1 (400-129905-28) and AW27600 MW-1 (400-129905-29).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-279360: the following samples were reduced due to insufficient sample volume AW27421 MW-3D (400-129905-1), AW27422 MW-3S (400-129905-2), AW27423 MW-4 (400-129905-3), AW27424 MW-4 DUP (400-129905-4), AW27425 MW-6 (400-129905-5), AW27425 MW-6 (400-129905-5[DUJ]), AW27426 MW-10 (400-129905-6), AW27427 MW-15 (400-129905-7), AW27428 MW-16 (400-129905-8), AW27429 MW-16 DUP (400-129905-9), AW27430 MW-14 (400-129905-10), AW27431 MW-12 (400-129905-11), AW27432 MW-13D (400-129905-12), AW27553 MW-9D (400-129905-14), AW27554 FB-1 (400-129905-15), AW27555 MW-2 (400-129905-16), AW27556 MW-11 (400-129905-17), AW27557 FB-2 (400-129905-18), AW27558 MW-7S (400-129905-19) and AW27559 MW-7D (400-129905-20).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-279376: The following samples were prepared at a reduced aliquot due to insufficient volume AW27552 MW-13S (400-129905-13), AW27552 MW-13S (400-129905-13[DUJ]), AW27560 MW-8S (400-129905-21), AW27561 MW-8D (400-129905-22), AW27562 MW-9S (400-129905-23), AW27563 FB-3 (400-129905-24), AW27596 MW-5 (400-129905-25), AW27597 MW-5 DUP (400-129905-26), AW27598 PZ5 (400-129905-27), AW27599 EB-1 (400-129905-28) and AW27600 MW-1 (400-129905-29).

Method Summary

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

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

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 Miller

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-129905-1	AW27421 MW-3D	Water	10/31/16 14:15	11/09/16 16:30
400-129905-2	AW27422 MW-3S	Water	10/31/16 15:40	11/09/16 16:30
400-129905-3	AW27423 MW-4	Water	11/01/16 08:59	11/09/16 16:30
400-129905-4	AW27424 MW-4 DUP	Water	11/01/16 08:59	11/09/16 16:30
400-129905-5	AW27425 MW-6	Water	11/01/16 10:08	11/09/16 16:30
400-129905-6	AW27426 MW-10	Water	10/31/16 11:38	11/09/16 16:30
400-129905-7	AW27427 MW-15	Water	10/31/16 13:00	11/09/16 16:30
400-129905-8	AW27428 MW-16	Water	10/31/16 14:40	11/09/16 16:30
400-129905-9	AW27429 MW-16 DUP	Water	10/31/16 14:40	11/09/16 16:30
400-129905-10	AW27430 MW-14	Water	10/31/16 16:03	11/09/16 16:30
400-129905-11	AW27431 MW-12	Water	11/01/16 09:35	11/09/16 16:30
400-129905-12	AW27432 MW-13D	Water	11/01/16 10:55	11/09/16 16:30
400-129905-13	AW27552 MW-13S	Water	11/01/16 12:53	11/09/16 16:30
400-129905-14	AW27553 MW-9D	Water	11/01/16 14:38	11/09/16 16:30
400-129905-15	AW27554 FB-1	Water	11/01/16 14:53	11/09/16 16:30
400-129905-16	AW27555 MW-2	Water	11/01/16 12:00	11/09/16 16:30
400-129905-17	AW27556 MW-11	Water	11/01/16 13:53	11/09/16 16:30
400-129905-18	AW27557 FB-2	Water	11/01/16 14:25	11/09/16 16:30
400-129905-19	AW27558 MW-7S	Water	11/01/16 11:33	11/09/16 16:30
400-129905-20	AW27559 MW-7D	Water	11/01/16 12:40	11/09/16 16:30
400-129905-21	AW27560 MW-8S	Water	11/01/16 14:00	11/09/16 16:30
400-129905-22	AW27561 MW-8D	Water	11/01/16 15:00	11/09/16 16:30
400-129905-23	AW27562 MW-9S	Water	11/02/16 10:25	11/09/16 16:30
400-129905-24	AW27563 FB-3	Water	11/02/16 11:30	11/09/16 16:30
400-129905-25	AW27596 MW-5	Water	11/02/16 10:15	11/09/16 16:30
400-129905-26	AW27597 MW-5 DUP	Water	11/02/16 10:15	11/09/16 16:30
400-129905-27	AW27598 PZ-5	Water	11/02/16 12:08	11/09/16 16:30
400-129905-28	AW27599 EB-1	Water	11/02/16 12:45	11/09/16 16:30
400-129905-29	AW27600 MW-1	Water	11/02/16 13:10	11/09/16 16:30

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27421 MW-3D

Lab Sample ID: 400-129905-1

Date Collected: 10/31/16 14:15

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0685	U	0.286	0.286	1.00	0.554	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.453	U	0.458	0.460	1.00	0.746	pCi/L	11/15/16 11:23	12/13/16 17:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					11/15/16 11:23	12/13/16 17:17	1
Y Carrier	78.9		40 - 110					11/15/16 11:23	12/13/16 17:17	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	0.521	U	0.540	0.542	5.00	0.746	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27422 MW-3S

Lab Sample ID: 400-129905-2

Date Collected: 10/31/16 15:40

Matrix: Water

Date Received: 11/09/16 16:30

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	0.250	0.250	1.00	0.549	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.199	U	0.376	0.377	1.00	0.640	pCi/L	11/15/16 11:23	12/13/16 17:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					11/15/16 11:23	12/13/16 17:17	1
Y Carrier	84.1		40 - 110					11/15/16 11:23	12/13/16 17:17	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	0.147	U	0.452	0.452	5.00	0.640	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27423 MW-4

Lab Sample ID: 400-129905-3

Date Collected: 11/01/16 08:59

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.185	U	0.234	0.235	1.00	0.579	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.327	U	0.409	0.410	1.00	0.677	pCi/L	11/15/16 11:23	12/13/16 17:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					11/15/16 11:23	12/13/16 17:17	1
Y Carrier	83.4		40 - 110					11/15/16 11:23	12/13/16 17:17	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	0.142	U	0.471	0.473	5.00	0.677	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27424 MW-4 DUP

Lab Sample ID: 400-129905-4

Date Collected: 11/01/16 08:59

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0449	U	0.404	0.404	1.00	0.796	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/15/16 10:43	12/13/16 22:01	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	U	0.409	0.411	1.00	0.655	pCi/L	11/15/16 11:23	12/13/16 17:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/15/16 11:23	12/13/16 17:18	1
Y Carrier	82.2		40 - 110					11/15/16 11:23	12/13/16 17:18	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	0.512	U	0.575	0.576	5.00	0.796	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27425 MW-6

Lab Sample ID: 400-129905-5

Date Collected: 11/01/16 10:08

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182	U	0.310	0.310	1.00	0.543	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0975	U	0.297	0.297	1.00	0.517	pCi/L	11/15/16 11:23	12/13/16 17:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					11/15/16 11:23	12/13/16 17:18	1
Y Carrier	90.8		40 - 110					11/15/16 11:23	12/13/16 17:18	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	0.279	U	0.429	0.429	5.00	0.543	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27426 MW-10

Lab Sample ID: 400-129905-6

Date Collected: 10/31/16 11:38

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.400	U	0.400	0.402	1.00	0.633	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0297	U	0.307	0.307	1.00	0.560	pCi/L	11/15/16 11:23	12/13/16 17:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					11/15/16 11:23	12/13/16 17:18	1
Y Carrier	89.0		40 - 110					11/15/16 11:23	12/13/16 17:18	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	0.370	U	0.505	0.506	5.00	0.633	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27427 MW-15

Lab Sample ID: 400-129905-7

Date Collected: 10/31/16 13:00

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.270	U	0.340	0.341	1.00	0.563	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.338	U	0.342	0.344	1.00	0.556	pCi/L	11/15/16 11:23	12/13/16 17:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					11/15/16 11:23	12/13/16 17:18	1
Y Carrier	85.6		40 - 110					11/15/16 11:23	12/13/16 17:18	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	0.608		0.482	0.484	5.00	0.563	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27428 MW-16

Lab Sample ID: 400-129905-8

Date Collected: 10/31/16 14:40

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.289	U	0.350	0.351	1.00	0.575	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0203	U	0.342	0.342	1.00	0.617	pCi/L	11/15/16 11:23	12/13/16 17:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					11/15/16 11:23	12/13/16 17:18	1
Y Carrier	84.9		40 - 110					11/15/16 11:23	12/13/16 17:18	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	0.268	U	0.489	0.490	5.00	0.617	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27429 MW-16 DUP

Lab Sample ID: 400-129905-9

Date Collected: 10/31/16 14:40

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.507	U	0.368	0.370	1.00	0.509	pCi/L	11/15/16 10:43	12/13/16 22:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					11/15/16 10:43	12/13/16 22:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.437	U	0.388	0.390	1.00	0.621	pCi/L	11/15/16 11:23	12/13/16 17:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					11/15/16 11:23	12/13/16 17:18	1
Y Carrier	81.1		40 - 110					11/15/16 11:23	12/13/16 17:18	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	0.944		0.535	0.538	5.00	0.621	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27430 MW-14

Lab Sample ID: 400-129905-10

Date Collected: 10/31/16 16:03

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217	U	0.324	0.325	1.00	0.556	pCi/L	11/15/16 10:43	12/13/16 22:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					11/15/16 10:43	12/13/16 22:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.104	U	0.310	0.310	1.00	0.543	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	86.7		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.321	U	0.449	0.449	5.00	0.556	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27431 MW-12

Lab Sample ID: 400-129905-11

Date Collected: 11/01/16 09:35

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0824	U	0.258	0.258	1.00	0.493	pCi/L	11/15/16 10:43	12/13/16 22:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					11/15/16 10:43	12/13/16 22:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.374	U	0.342	0.343	1.00	0.548	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	83.0		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.456	U	0.428	0.430	5.00	0.548	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27432 MW-13D

Lab Sample ID: 400-129905-12

Date Collected: 11/01/16 10:55

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130	U	0.303	0.303	1.00	0.548	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0118	U	0.308	0.308	1.00	0.554	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	90.5		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.119	U	0.433	0.433	5.00	0.554	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27552 MW-13S

Lab Sample ID: 400-129905-13

Date Collected: 11/01/16 12:53

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.266	U	0.328	0.329	1.00	0.540	pCi/L	11/15/16 11:25	12/14/16 21:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					11/15/16 11:25	12/14/16 21:01	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		0.299	0.302	1.00	0.454	pCi/L	11/15/16 12:02	12/14/16 17:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					11/15/16 12:02	12/14/16 17:07	1
Y Carrier	86.0		40 - 110					11/15/16 12:02	12/14/16 17:07	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.724		0.444	0.446	5.00	0.540	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27553 MW-9D

Lab Sample ID: 400-129905-14

Date Collected: 11/01/16 14:38

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0767	U	0.303	0.303	1.00	0.631	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.304	0.305	1.00	0.506	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	89.7		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.160	U	0.430	0.430	5.00	0.631	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27554 FB-1

Lab Sample ID: 400-129905-15

Date Collected: 11/01/16 14:53

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0650	U	0.329	0.329	1.00	0.625	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00990	U	0.305	0.305	1.00	0.553	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	90.8		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.0551	U	0.448	0.448	5.00	0.625	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27555 MW-2

Lab Sample ID: 400-129905-16

Date Collected: 11/01/16 12:00

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0536	U	0.258	0.258	1.00	0.507	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0440	U	0.343	0.343	1.00	0.619	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	90.5		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.00962	U	0.430	0.430	5.00	0.619	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27556 MW-11

Lab Sample ID: 400-129905-17

Date Collected: 11/01/16 13:53

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.267	U	0.368	0.368	1.00	0.620	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.191	U	0.345	0.345	1.00	0.586	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	85.6		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.458	U	0.504	0.505	5.00	0.620	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27557 FB-2

Lab Sample ID: 400-129905-18

Date Collected: 11/01/16 14:25

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.272	U	0.329	0.330	1.00	0.542	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.155	U	0.309	0.309	1.00	0.587	pCi/L	11/15/16 11:23	12/13/16 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					11/15/16 11:23	12/13/16 17:19	1
Y Carrier	83.0		40 - 110					11/15/16 11:23	12/13/16 17:19	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	0.117	U	0.452	0.453	5.00	0.587	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27558 MW-7S

Lab Sample ID: 400-129905-19

Date Collected: 11/01/16 11:33

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0308	U	0.279	0.279	1.00	0.560	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.284	U	0.412	0.412	1.00	0.689	pCi/L	11/15/16 11:23	12/13/16 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					11/15/16 11:23	12/13/16 17:20	1
Y Carrier	85.6		40 - 110					11/15/16 11:23	12/13/16 17:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.315	U	0.497	0.498	5.00	0.689	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27559 MW-7D

Lab Sample ID: 400-129905-20

Date Collected: 11/01/16 12:40

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0753	U	0.269	0.269	1.00	0.516	pCi/L	11/15/16 10:43	12/13/16 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					11/15/16 10:43	12/13/16 22:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.581		0.342	0.346	1.00	0.509	pCi/L	11/15/16 11:23	12/13/16 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					11/15/16 11:23	12/13/16 17:20	1
Y Carrier	87.1		40 - 110					11/15/16 11:23	12/13/16 17:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.657		0.435	0.439	5.00	0.516	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27560 MW-8S

Lab Sample ID: 400-129905-21

Date Collected: 11/01/16 14:00

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0696	U	0.274	0.274	1.00	0.606	pCi/L	11/15/16 11:25	12/14/16 22:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					11/15/16 11:25	12/14/16 22:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.131	U	0.363	0.363	1.00	0.631	pCi/L	11/15/16 12:02	12/14/16 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					11/15/16 12:02	12/14/16 17:08	1
Y Carrier	83.4		40 - 110					11/15/16 12:02	12/14/16 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0619	U	0.455	0.455	5.00	0.631	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27561 MW-8D

Lab Sample ID: 400-129905-22

Date Collected: 11/01/16 15:00

Matrix: Water

Date Received: 11/09/16 16:30

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		0.387	0.390	1.00	0.529	pCi/L	11/15/16 11:25	12/14/16 22:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					11/15/16 11:25	12/14/16 22:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.562	U	0.553	0.555	1.00	0.901	pCi/L	11/15/16 12:02	12/14/16 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					11/15/16 12:02	12/14/16 17:08	1
Y Carrier	82.2		40 - 110					11/15/16 12:02	12/14/16 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.13		0.674	0.678	5.00	0.901	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27562 MW-9S

Lab Sample ID: 400-129905-23

Date Collected: 11/02/16 10:25

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182	U	0.342	0.342	1.00	0.605	pCi/L	11/15/16 11:25	12/14/16 22:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		40 - 110					11/15/16 11:25	12/14/16 22:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.669		0.379	0.384	1.00	0.568	pCi/L	11/15/16 12:02	12/14/16 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		40 - 110					11/15/16 12:02	12/14/16 17:08	1
Y Carrier	87.9		40 - 110					11/15/16 12:02	12/14/16 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.851		0.510	0.514	5.00	0.605	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27563 FB-3

Lab Sample ID: 400-129905-24

Date Collected: 11/02/16 11:30

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.203	0.203	1.00	0.361	pCi/L	11/15/16 11:25	12/15/16 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					11/15/16 11:25	12/15/16 15:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0297	U	0.285	0.285	1.00	0.508	pCi/L	11/15/16 12:02	12/14/16 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					11/15/16 12:02	12/14/16 17:08	1
Y Carrier	85.6		40 - 110					11/15/16 12:02	12/14/16 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.144	U	0.350	0.350	5.00	0.508	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27596 MW-5

Lab Sample ID: 400-129905-25

Date Collected: 11/02/16 10:15

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0591	U	0.276	0.276	1.00	0.599	pCi/L	11/15/16 11:25	12/14/16 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					11/15/16 11:25	12/14/16 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.543	U	0.412	0.415	1.00	0.648	pCi/L	11/15/16 12:02	12/14/16 17:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					11/15/16 12:02	12/14/16 17:08	1
Y Carrier	81.1		40 - 110					11/15/16 12:02	12/14/16 17:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.483	U	0.496	0.498	5.00	0.648	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27597 MW-5 DUP

Lab Sample ID: 400-129905-26

Date Collected: 11/02/16 10:15

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0872	U	0.290	0.290	1.00	0.634	pCi/L	11/15/16 11:25	12/14/16 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					11/15/16 11:25	12/14/16 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.444	U	0.422	0.424	1.00	0.683	pCi/L	11/15/16 12:02	12/14/16 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					11/15/16 12:02	12/14/16 17:09	1
Y Carrier	83.7		40 - 110					11/15/16 12:02	12/14/16 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.357	U	0.512	0.514	5.00	0.683	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27598 PZ-5

Lab Sample ID: 400-129905-27

Date Collected: 11/02/16 12:08

Matrix: Water

Date Received: 11/09/16 16:30

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	U	0.332	0.333	1.00	0.542	pCi/L	11/15/16 11:25	12/14/16 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					11/15/16 11:25	12/14/16 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0616	U	0.469	0.469	1.00	0.833	pCi/L	11/15/16 12:02	12/14/16 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					11/15/16 12:02	12/14/16 17:09	1
Y Carrier	80.4		40 - 110					11/15/16 12:02	12/14/16 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.217	U	0.575	0.575	5.00	0.833	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27599 EB-1

Lab Sample ID: 400-129905-28

Date Collected: 11/02/16 12:45

Matrix: Water

Date Received: 11/09/16 16:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0403	U	0.244	0.244	1.00	0.532	pCi/L	11/15/16 11:25	12/14/16 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					11/15/16 11:25	12/14/16 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.441	U	0.358	0.361	1.00	0.570	pCi/L	11/15/16 12:02	12/14/16 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					11/15/16 12:02	12/14/16 17:09	1
Y Carrier	86.7		40 - 110					11/15/16 12:02	12/14/16 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.401	U	0.434	0.436	5.00	0.570	pCi/L		12/16/16 18:56	1

Client Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27600 MW-1

Lab Sample ID: 400-129905-29

Date Collected: 11/02/16 13:10

Matrix: Water

Date Received: 11/09/16 16:30

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	U	0.360	0.361	1.00	0.582	pCi/L	11/15/16 11:25	12/14/16 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					11/15/16 11:25	12/14/16 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.320	U	0.411	0.412	1.00	0.682	pCi/L	11/15/16 12:02	12/14/16 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					11/15/16 12:02	12/14/16 17:09	1
Y Carrier	81.9		40 - 110					11/15/16 12:02	12/14/16 17:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.637	U	0.546	0.548	5.00	0.682	pCi/L		12/16/16 18:56	1

Definitions/Glossary

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

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27421 MW-3D

Lab Sample ID: 400-129905-1

Date Collected: 10/31/16 14:15

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:17	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27422 MW-3S

Lab Sample ID: 400-129905-2

Date Collected: 10/31/16 15:40

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:17	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27423 MW-4

Lab Sample ID: 400-129905-3

Date Collected: 11/01/16 08:59

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:17	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27424 MW-4 DUP

Lab Sample ID: 400-129905-4

Date Collected: 11/01/16 08:59

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:18	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27425 MW-6

Lab Sample ID: 400-129905-5

Date Collected: 11/01/16 10:08

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:18	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27426 MW-10

Lab Sample ID: 400-129905-6

Date Collected: 10/31/16 11:38

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:18	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27427 MW-15

Lab Sample ID: 400-129905-7

Date Collected: 10/31/16 13:00

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:18	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27428 MW-16

Lab Sample ID: 400-129905-8

Date Collected: 10/31/16 14:40

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:18	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

Client Sample ID: AW27429 MW-16 DUP

Lab Sample ID: 400-129905-9

Date Collected: 10/31/16 14:40

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:18	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27430 MW-14

Lab Sample ID: 400-129905-10

Date Collected: 10/31/16 16:03

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:02	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27431 MW-12

Lab Sample ID: 400-129905-11

Date Collected: 11/01/16 09:35

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283776	12/13/16 22:02	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27432 MW-13D

Lab Sample ID: 400-129905-12

Date Collected: 11/01/16 10:55

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27552 MW-13S

Lab Sample ID: 400-129905-13

Date Collected: 11/01/16 12:53

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283971	12/14/16 21:01	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:07	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27553 MW-9D

Lab Sample ID: 400-129905-14

Date Collected: 11/01/16 14:38

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27554 FB-1

Lab Sample ID: 400-129905-15

Date Collected: 11/01/16 14:53

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27555 MW-2

Lab Sample ID: 400-129905-16

Date Collected: 11/01/16 12:00

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27556 MW-11

Lab Sample ID: 400-129905-17

Date Collected: 11/01/16 13:53

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27557 FB-2

Lab Sample ID: 400-129905-18

Date Collected: 11/01/16 14:25

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283775	12/13/16 17:19	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27558 MW-7S

Lab Sample ID: 400-129905-19

Date Collected: 11/01/16 11:33

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283776	12/13/16 17:20	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27559 MW-7D

Lab Sample ID: 400-129905-20

Date Collected: 11/01/16 12:40

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279360	11/15/16 10:43	AS	TAL SL
Total/NA	Analysis	9315		1	283775	12/13/16 22:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279371	11/15/16 11:23	AS	TAL SL
Total/NA	Analysis	9320		1	283776	12/13/16 17:20	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

Client Sample ID: AW27560 MW-8S

Lab Sample ID: 400-129905-21

Date Collected: 11/01/16 14:00

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283971	12/14/16 22:02	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:08	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27561 MW-8D

Lab Sample ID: 400-129905-22

Date Collected: 11/01/16 15:00

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283971	12/14/16 22:02	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:08	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27562 MW-9S

Lab Sample ID: 400-129905-23

Date Collected: 11/02/16 10:25

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283971	12/14/16 22:02	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:08	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27563 FB-3

Lab Sample ID: 400-129905-24

Date Collected: 11/02/16 11:30

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	284110	12/15/16 15:05	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:08	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Client Sample ID: AW27596 MW-5

Lab Sample ID: 400-129905-25

Date Collected: 11/02/16 10:15

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283963	12/14/16 22:06	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:08	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27597 MW-5 DUP

Lab Sample ID: 400-129905-26

Date Collected: 11/02/16 10:15

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283963	12/14/16 22:06	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:09	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27598 PZ-5

Lab Sample ID: 400-129905-27

Date Collected: 11/02/16 12:08

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283963	12/14/16 22:06	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:09	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Client Sample ID: AW27599 EB-1

Lab Sample ID: 400-129905-28

Date Collected: 11/02/16 12:45

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283963	12/14/16 22:06	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:09	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

Client Sample ID: AW27600 MW-1

Lab Sample ID: 400-129905-29

Date Collected: 11/02/16 13:10

Matrix: Water

Date Received: 11/09/16 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			279376	11/15/16 11:25	AS	TAL SL
Total/NA	Analysis	9315		1	283963	12/14/16 22:06	MLK	TAL SL
Total/NA	Prep	PrecSep_0			279386	11/15/16 12:02	AS	TAL SL
Total/NA	Analysis	9320		1	283970	12/14/16 17:09	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	284393	12/16/16 18:56	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 Miller

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Rad

Prep Batch: 279360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129905-1	AW27421 MW-3D	Total/NA	Water	PrecSep-21	
400-129905-2	AW27422 MW-3S	Total/NA	Water	PrecSep-21	
400-129905-3	AW27423 MW-4	Total/NA	Water	PrecSep-21	
400-129905-4	AW27424 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-129905-5	AW27425 MW-6	Total/NA	Water	PrecSep-21	
400-129905-6	AW27426 MW-10	Total/NA	Water	PrecSep-21	
400-129905-7	AW27427 MW-15	Total/NA	Water	PrecSep-21	
400-129905-8	AW27428 MW-16	Total/NA	Water	PrecSep-21	
400-129905-9	AW27429 MW-16 DUP	Total/NA	Water	PrecSep-21	
400-129905-10	AW27430 MW-14	Total/NA	Water	PrecSep-21	
400-129905-11	AW27431 MW-12	Total/NA	Water	PrecSep-21	
400-129905-12	AW27432 MW-13D	Total/NA	Water	PrecSep-21	
400-129905-14	AW27553 MW-9D	Total/NA	Water	PrecSep-21	
400-129905-15	AW27554 FB-1	Total/NA	Water	PrecSep-21	
400-129905-16	AW27555 MW-2	Total/NA	Water	PrecSep-21	
400-129905-17	AW27556 MW-11	Total/NA	Water	PrecSep-21	
400-129905-18	AW27557 FB-2	Total/NA	Water	PrecSep-21	
400-129905-19	AW27558 MW-7S	Total/NA	Water	PrecSep-21	
400-129905-20	AW27559 MW-7D	Total/NA	Water	PrecSep-21	
MB 160-279360/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-279360/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-129905-5 DU	AW27425 MW-6	Total/NA	Water	PrecSep-21	

Prep Batch: 279371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129905-1	AW27421 MW-3D	Total/NA	Water	PrecSep_0	
400-129905-2	AW27422 MW-3S	Total/NA	Water	PrecSep_0	
400-129905-3	AW27423 MW-4	Total/NA	Water	PrecSep_0	
400-129905-4	AW27424 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-129905-5	AW27425 MW-6	Total/NA	Water	PrecSep_0	
400-129905-6	AW27426 MW-10	Total/NA	Water	PrecSep_0	
400-129905-7	AW27427 MW-15	Total/NA	Water	PrecSep_0	
400-129905-8	AW27428 MW-16	Total/NA	Water	PrecSep_0	
400-129905-9	AW27429 MW-16 DUP	Total/NA	Water	PrecSep_0	
400-129905-10	AW27430 MW-14	Total/NA	Water	PrecSep_0	
400-129905-11	AW27431 MW-12	Total/NA	Water	PrecSep_0	
400-129905-12	AW27432 MW-13D	Total/NA	Water	PrecSep_0	
400-129905-14	AW27553 MW-9D	Total/NA	Water	PrecSep_0	
400-129905-15	AW27554 FB-1	Total/NA	Water	PrecSep_0	
400-129905-16	AW27555 MW-2	Total/NA	Water	PrecSep_0	
400-129905-17	AW27556 MW-11	Total/NA	Water	PrecSep_0	
400-129905-18	AW27557 FB-2	Total/NA	Water	PrecSep_0	
400-129905-19	AW27558 MW-7S	Total/NA	Water	PrecSep_0	
400-129905-20	AW27559 MW-7D	Total/NA	Water	PrecSep_0	
MB 160-279371/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-279371/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-129905-5 DU	AW27425 MW-6	Total/NA	Water	PrecSep_0	

Prep Batch: 279376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129905-13	AW27552 MW-13S	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Rad (Continued)

Prep Batch: 279376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129905-21	AW27560 MW-8S	Total/NA	Water	PrecSep-21	
400-129905-22	AW27561 MW-8D	Total/NA	Water	PrecSep-21	
400-129905-23	AW27562 MW-9S	Total/NA	Water	PrecSep-21	
400-129905-24	AW27563 FB-3	Total/NA	Water	PrecSep-21	
400-129905-25	AW27596 MW-5	Total/NA	Water	PrecSep-21	
400-129905-26	AW27597 MW-5 DUP	Total/NA	Water	PrecSep-21	
400-129905-27	AW27598 PZ-5	Total/NA	Water	PrecSep-21	
400-129905-28	AW27599 EB-1	Total/NA	Water	PrecSep-21	
400-129905-29	AW27600 MW-1	Total/NA	Water	PrecSep-21	
MB 160-279376/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-279376/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-129905-13 DU	AW27552 MW-13S	Total/NA	Water	PrecSep-21	

Prep Batch: 279386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129905-13	AW27552 MW-13S	Total/NA	Water	PrecSep_0	
400-129905-21	AW27560 MW-8S	Total/NA	Water	PrecSep_0	
400-129905-22	AW27561 MW-8D	Total/NA	Water	PrecSep_0	
400-129905-23	AW27562 MW-9S	Total/NA	Water	PrecSep_0	
400-129905-24	AW27563 FB-3	Total/NA	Water	PrecSep_0	
400-129905-25	AW27596 MW-5	Total/NA	Water	PrecSep_0	
400-129905-26	AW27597 MW-5 DUP	Total/NA	Water	PrecSep_0	
400-129905-27	AW27598 PZ-5	Total/NA	Water	PrecSep_0	
400-129905-28	AW27599 EB-1	Total/NA	Water	PrecSep_0	
400-129905-29	AW27600 MW-1	Total/NA	Water	PrecSep_0	
MB 160-279386/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-279386/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-129905-13 DU	AW27552 MW-13S	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-279360/1-A
Matrix: Water
Analysis Batch: 283776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279360

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2469	U	0.344	0.345	1.00	0.582	pCi/L	11/15/16 10:43	12/13/16 22:00	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		11/15/16 10:43	12/13/16 22:00				1	
	70.7		40 - 110							

Lab Sample ID: LCS 160-279360/2-A
Matrix: Water
Analysis Batch: 283776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279360

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	14.8	16.69		2.23	1.00	0.560	pCi/L	113	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		11/15/16 10:43	12/13/16 22:00				1
	75.8		40 - 110						

Lab Sample ID: 400-129905-5 DU
Matrix: Water
Analysis Batch: 283776

Client Sample ID: AW27425 MW-6
Prep Type: Total/NA
Prep Batch: 279360

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.182	U	0.3852	U	0.405	1.00	0.640	pCi/L	0.28	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		11/15/16 11:25	12/14/16 21:01				1	
	67.0		40 - 110							

Lab Sample ID: MB 160-279376/1-A
Matrix: Water
Analysis Batch: 283971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279376

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.06439	U	0.230	0.230	1.00	0.441	pCi/L	11/15/16 11:25	12/14/16 21:01	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		11/15/16 11:25	12/14/16 21:01				1	
	73.5		40 - 110							

Lab Sample ID: LCS 160-279376/2-A
Matrix: Water
Analysis Batch: 283971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279376

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	14.21		1.84	1.00	0.432	pCi/L	128	68 - 137

QC Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-279376/2-A
Matrix: Water
Analysis Batch: 283971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279376

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	76.9		40 - 110

Lab Sample ID: 400-129905-13 DU
Matrix: Water
Analysis Batch: 283971

Client Sample ID: AW27552 MW-13S
Prep Type: Total/NA
Prep Batch: 279376

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.266	U	0.1177	U	0.253	1.00	0.465	pCi/L	0.26	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	84.3		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-279371/1-A
Matrix: Water
Analysis Batch: 283775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279371

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.03565	U	0.416	0.416	1.00	0.737	pCi/L	11/15/16 11:23	12/13/16 17:17	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110	11/15/16 11:23	12/13/16 17:17	1
Y Carrier	83.0		40 - 110	11/15/16 11:23	12/13/16 17:17	1

Lab Sample ID: LCS 160-279371/2-A
Matrix: Water
Analysis Batch: 283775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279371

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	18.9	21.00		2.31	1.00	0.646	pCi/L	111	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	75.8		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: 400-129905-5 DU
Matrix: Water
Analysis Batch: 283775

Client Sample ID: AW27425 MW-6
Prep Type: Total/NA
Prep Batch: 279371

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.0975	U	0.4256	U	0.432	1.00	0.700	pCi/L	0.45	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-129905-5 DU
Matrix: Water
Analysis Batch: 283775

Client Sample ID: AW27425 MW-6
Prep Type: Total/NA
Prep Batch: 279371

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	67.0		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: MB 160-279386/1-A
Matrix: Water
Analysis Batch: 283970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279386

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08631	U	0.289	0.289	1.00	0.503	pCi/L	11/15/16 12:02	12/14/16 17:07	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	73.5		40 - 110	11/15/16 12:02	12/14/16 17:07	1
Y Carrier	84.1		40 - 110	11/15/16 12:02	12/14/16 17:07	1

Lab Sample ID: LCS 160-279386/2-A
Matrix: Water
Analysis Batch: 283970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279386

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.1	18.04		1.95	1.00	0.468	pCi/L	128	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	76.9		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: 400-129905-13 DU
Matrix: Water
Analysis Batch: 283970

Client Sample ID: AW27552 MW-13S
Prep Type: Total/NA
Prep Batch: 279386

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.458		0.4115	U	0.392	1.00	0.632	pCi/L	0.07	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	84.3		40 - 110
Y Carrier	86.0		40 - 110

QC Sample Results

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-129905-5 DU
Matrix: Water
Analysis Batch: 284393

Client Sample ID: AW27425 MW-6
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	0.279	U	0.8108		0.592	5.00	0.700	pCi/L	0.52	

Lab Sample ID: 400-129905-13 DU
Matrix: Water
Analysis Batch: 284393

Client Sample ID: AW27552 MW-13S
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	0.724		0.5293	U	0.467	5.00	0.632	pCi/L	0.21	

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information 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@southernmco.com Project #: 40007143 CCR Site: Miller Ash Pond (3)		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 1 of 3 Job #: 400-129905				
Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSON#:		Analysis Requested Field Filtered Sample (Yes or No) 9315_Ra226, 9320_Ra228, Ra226Ra228_GFP Perform MS/MSD (Yes or No) X Total Number of Containers:				
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=water, BT=Butt, T=Tap)	Preservation Code	Special Instructions/Note:
AW27421	10/31/16	1415	G	Water	MMW-3D	
AW27422	10/31/16	1540	G	Water	MMW-3S	
AW27423	11/1/16	0859	G	Water	MMW-4	
AW27424	11/1/16	0859	G	Water	MMW-4 Dup (Sample Duplicate)	
AW27425	11/1/16	1008	G	Water	MMW-6	
AW27426	10/31/16	1138	G	Water	MMW-10	
AW27427	10/31/16	1300	G	Water	MMW-15	
AW27428	10/31/16	1440	G	Water	MMW-16	
AW27429	10/31/16	1440	G	Water	MMW-16 Dup (Sample Duplicate)	400-129905 COC
AW27430	10/31/16	1603	G	Water	MMW-14	
AW27431	11/1/16	0935	G	Water	MMW-12	
AW27432	11/1/16	1055	G	Water	MMW-13D	
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, 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 Special Instructions/QC Requirements:						
Empty Kit Relinquished by: Sarah Copeland Relinquished by: Sarah Copeland Relinquished by: Relinquished by:						
Date/Time: 11/09/2016, 1330 Date/Time: Date/Time:						
Date: 11/20/16 Date/Time: 16:30 Date/Time: Date/Time:						
Relinquished by: Sarah Copeland Company: APC Relinquished by: Company: Relinquished by: Company:						
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 18.8°C, 19.4°C IRG						



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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information 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: Miller Ash Pond (3)		Lab P.M.: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 2 of 3 Job #: 400-12905	
Due Date Requested: TAT Requested (days): Routine		Analysis Requested	
PO #:		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
IWO #:		9315_Ra226, 9320_Ra226, Ra226Ra228_GFP	Total Number of Containers
Project #:	40007143		
SSOW#:			
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil, etc.)
AW27552	11/1/16 1253	G	Water
AW27553	11/1/16 1438	G	Water
AW27554	11/1/16 1453	G	Water
AW27555	11/1/16 1200	G	Water
AW27556	11/1/16 1353	G	Water
AW27557	11/1/16 1425	G	Water
AW27558	11/1/16 1133	G	Water
AW27559	11/1/16 1240	G	Water
AW27560	11/1/16 1400	G	Water
AW27561	11/1/16 1500	G	Water
AW27562	11/2/16 1025	G	Water
AW27563	11/2/16 1130	G	Water
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, 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			
Special Instructions/Requirements:			
Empty Kit Relinquished by: Sarah Copeland Relinquished by: _____ Relinquished by: _____		Date: 11/9/2016, 1330 Date/Time: _____ Date/Time: _____	
Relinquished by: Sarah Copeland Date/Time: 11/9/2016, 1330		Method of Shipment: _____ Date/Time: 11/9/2016, 16:30 Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Date/Time: _____ Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Date/Time: _____ Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 18.8°C, 19.4°C IRG	

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab P.M.: Whitmire, Cheyenne R.		Carrier Tracking No(s):		COC No: 400-56825-24537.1	
Client Contact: Sarah Copeland		Phone: Jason Rouss/ Nick Pitts		E-Mail: cheyenne.whitmire@testamericainc.com		Page 3 of 3	
Company: Alabama Power General Test Laboratory		Address: 744 County Rd 87 GSC #8		City: Calera		State/Zip: AL, 35040	
Phone: 205-664-6121(Tel)		PO #:		WO #:		Project #: 40007143	
Email: sgcopela@southernco.com		CCR		Site: Miller Ash Pond (3)		SSOW#:	
Due Date Requested:		TAT Requested (days):		Routine		Analysis Requested	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Soil, G=Gravel, A=Air)	
Sample Identification		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
AW27596		11/2/16 1015		G Water		X	
AW27597		11/2/16 1015		G Water		X	
AW27598		11/2/16 1208		G Water		X	
AW27599		11/2/16 1245		G Water		X	
AW27600		11/2/16 1310		G Water		X	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Special Instructions/Note:	
AW27596		1		MW-5		MW-5	
AW27597		1		MW-5 Dup (Sample Duplicate)		MW-5 Dup (Sample Duplicate)	
AW27598		1		PZ-5		PZ-5	
AW27599		1		EB-1 (Equipment Blank)		EB-1 (Equipment Blank)	
AW27600		1		MW-1		MW-1	
Possible Hazard Identification		Date:		Time:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		Date/Time: 11/9/2016; 1330		Company: APC		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Date/Time:		Company:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date/Time:		Company:		Method of Shipment:	
Relinquished by: Sarah Copeland		Date/Time:		Company:		Received by: <i>[Signature]</i> Date/Time: 11/9/2016 16:30 Company: TA	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		18.8°C, 19.4°C IR6	



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-129905-1
SDG Number: Miller Ash Pond (3)

Login Number: 129905

List Number: 1

Creator: Siddoway, Benjamin

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.	True	18.8°C, 19.4°C IR-6
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	



Certification Summary

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

TestAmerica Job ID: 400-129905-1
 SDG: Miller Ash Pond (3)

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 400-129905-1
SDG: Miller Ash Pond (3)

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - 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

 Alabama Power



Sample Group : WMWMILAP_1069

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1069

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>Chloride Batch ID</u>	<u>Fluoride Batch ID</u>	<u>Sulfate Batch ID</u>	<u>Project ID</u>
AX00527	585115	585117	585123	WMWMILAP_1069
AX00528	585115	585117	585123	WMWMILAP_1069
AX00529	585115	585117	585123	WMWMILAP_1069
AX00530	585115	585117	585123	WMWMILAP_1069
AX00531	585115	585117	585123	WMWMILAP_1069
AX00532	585115	585117	585123	WMWMILAP_1069
AX00533	585115	585117	585123	WMWMILAP_1069
AX00534	585115	585117	585123	WMWMILAP_1069
AX00535	585115	585117	585123	WMWMILAP_1069
AX00536	585115	585117	585123	WMWMILAP_1069
AX00653	585116	585118	585124	WMWMILAP_1069
AX00654	585116	585118	585124	WMWMILAP_1069
AX00655	585116	585118	585124	WMWMILAP_1069
AX00656	585116	585118	585124	WMWMILAP_1069
AX00657	585116	585118	585124	WMWMILAP_1069
AX00659	585116	585118	585124	WMWMILAP_1069
AX00660	585116	585118	585124	WMWMILAP_1069
AX00662	585116	585118	585124	WMWMILAP_1069
AX00663	585116	585118	585124	WMWMILAP_1069
AX00811	585229	585230	585233	WMWMILAP_1069
AX00812	585229	585230	585233	WMWMILAP_1069
AX00813	585229	585230	585233	WMWMILAP_1069
AX00814	585229	585230	585233	WMWMILAP_1069
AX00815	585229	585230	585233	WMWMILAP_1069
AX00816	585229	585230	585233	WMWMILAP_1069
AX00847	585229	585230	585233	WMWMILAP_1069
AX00848	585229	585230	585233	WMWMILAP_1069
AX00849	585229	585230	585233	WMWMILAP_1069
AX00850	585229	585230	585233	WMWMILAP_1069
AX00851	585251	585252	585255	WMWMILAP_1069



4. All of the above samples were analyzed and prepared by EPA 300.0.
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 instrument performance check (IPC) was analyzed and all criteria were met.
- All laboratory reagent blanks were less than the method detection limits for the requested anions, with the following exceptions:
 1. The blank for anion sulfate in batch 585123 presented a negative concentration above the MDL of 0.3, at -0.459 mg/L. One batch sample (AX00536) presented a negative sulfate concentration (-0.419) below 10x the absolute value of the sulfate blank, and should be considered as a quantitatively estimated non-detect concentration, with the potential for low bias on the reported RL value.
 2. The blank for anion sulfate in batch 585124 presented a negative concentration above the MDL of 0.3, at -0.462 mg/L. Two batch samples (AX00657 and AX00663) presented negative sulfate concentrations (-0.427 and -0.425 mg/L, respectively) below 10x the absolute value of the sulfate blank, and should be considered as quantitatively estimated non-detect concentrations, with the potential for low bias on the reported RL value.
 3. The blank for anion sulfate in batch 585233 presented a negative concentration above the MDL of 0.3, at -0.447 mg/L. One batch sample (AX00849) presented a negative sulfate concentration (-0.403) below 10x the absolute value of the sulfate blank, and should be considered as a quantitatively estimated non-detect concentration, with the potential for low bias on the reported RL value.
 4. The blank for anion sulfate in batch 585255 presented a negative concentration above the MDL of 0.3, at -0.456 mg/L. The sulfate concentration for associated batch sample AX00851 was above 10x the absolute blank concentration and no qualification due to reagent blank concentration was necessary.
- All laboratory fortified blanks (LFB) were within acceptance criteria for the anions requested, with the following exceptions:
 1. No closing LFB was listed for the dilution re-analyses for chloride and sulfate (batches 585229 & 585233, respectively). Due to absence of a closing LFB, the reported results for the following sample dilutions are qualified as quantitatively estimated with indeterminate bias direction and magnitude: for chloride, sample AX00850; for sulfate, samples AX00811, AX00812, AX00813, AX00814, AX00816, AX00847, AX00848 and AX00850.
 2. No closing LFB was listed or run for the dilution re-analysis for chloride and sulfate (batches 585251 & 585255 respectively). Due to absence of a closing LFB, the reported results for the following sample dilutions for chloride and for sulfate are qualified as quantitatively estimated with indeterminate bias direction and magnitude: AX00851.



3. 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 laboratory fortified matrix (LFM) sample was analyzed with each batch. All acceptance criteria for accuracy were met. It is noted that the LFM for the sample dilution sequence for sulfate in batch 585233 was diluted 10x prior to spiking, and the diluted LFM sample spiked at 10x normal concentration, with acceptable recovery.
 - A sample duplicate and/or laboratory fortified matrix duplicate were analyzed with each batch. All acceptance criteria for precision were met. It is noted that separate and distinct criteria for duplicate precision calculations, based on sample and duplicate anion concentrations, are used to assess precision compliance. These are as follow: if the sample and duplicate are both greater than 5x anion Reporting Limit (RL) concentration, the precision is calculated and reported as relative percent difference (RPD), with an acceptance range of 0 - 20%; if either the sample or duplicate are less than 5x anion RL, the precision is calculated and reported as the absolute value of the difference between the two concentrations, with an acceptance range of less than or equal to the anion RL value.
7. Samples AX00528 and AX00529 were re-analyzed for chloride at a 5x dilution, samples AX00534, AX00535, AX00850, and AX00851 were re-analyzed for chloride at a 10x dilution, samples AX00531 and AX00533 were re-analyzed for chloride at a 20x dilution, sample AX00662 was re-analyzed for chloride at a 25X dilution, samples AX00528, AX00529, AX00532, and AX00814 were re-analyzed for sulfate at a 5x dilution, samples AX00534, AX00535, AX00811, AX00816, AX00847, AX00848, AX00850, and AX00851 were re-analyzed for sulfate at a 10x dilution, sample AX00659 was re-analyzed for sulfate at a 15X dilution, samples AX00531, AX00533, AX00653, AX00654, AX00656, AX00660, AX00812, and AX00813 were re-analyzed for sulfate at a 20x dilution, sample AX00662 was re-analyzed for sulfate at a 25X dilution, and sample AX00655 was re-analyzed for sulfate at a 30X dilution due to undiluted results exceeding the calibrated range of the detector. The dilution results for chloride and for sulfate for these samples should be used; reporting limit (RL) values are adjusted upward to reflect the dilution factor applied.



<u>Sample ID</u>		<u>Analyte</u>		<u>Dilution Factor</u>
AX00528		Chloride, Sulfate		5X
AX00529		Chloride, Sulfate		5X
AX00531		Chloride, Sulfate		20X
AX00532		Sulfate		5X
AX00533		Chloride, Sulfate		20X
AX00534		Chloride, Sulfate		10X
AX00535		Chloride, Sulfate		10X
AX00653		Sulfate		20X
AX00654		Sulfate		20X
AX00655		Sulfate		30X
AX00656		Sulfate		20X
AX00659		Sulfate		15X
AX00660		Sulfate		20X
AX00662		Chloride, Sulfate		25X
AX00811		Sulfate		10X
AX00812		Sulfate		20X
AX00813		Sulfate		20X
AX00814		Sulfate		5X
AX00816		Sulfate		10X
AX00847		Sulfate		10X
AX00848		Sulfate		10X
AX00850		Chloride, Sulfate		10X
AX00851		Chloride, Sulfate		10X

8. The raw data results are shown with dilution factors included, when dilutions are manually performed by the analyst.
 The raw data results are shown without dilution factor corrections, when dilutions are run automatically by the instrument.



Metals ICP

Miller Ash Pond

WMWMILAP_1069

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>
AX00527	20170131A_20170201A	WMWMILAP_1069
AX00528	20170131A_20170201A	WMWMILAP_1069
AX00529	20170131A_20170201A	WMWMILAP_1069
AX00530	20170131A_20170201A	WMWMILAP_1069
AX00531	20170131A_20170201A	WMWMILAP_1069
AX00532	20170131A_20170201A	WMWMILAP_1069
AX00533	20170131A_20170201A	WMWMILAP_1069
AX00534	20170131A_20170201A	WMWMILAP_1069
AX00535	20170131A_20170201A	WMWMILAP_1069
AX00536	20170131A_20170201A	WMWMILAP_1069
AX00653	20170202A_20170207	WMWMILAP_1069
AX00654	20170202A_20170207	WMWMILAP_1069
AX00655	20170202A_20170207	WMWMILAP_1069
AX00656	20170202A_20170207	WMWMILAP_1069
AX00657	20170202A_20170207	WMWMILAP_1069
AX00659	20170202A_20170207	WMWMILAP_1069
AX00660	20170202A_20170207	WMWMILAP_1069
AX00662	20170202A_20170207	WMWMILAP_1069
AX00663	20170202A_20170207	WMWMILAP_1069
AX00811	20170202A_20170207	WMWMILAP_1069
AX00812	20170223B	WMWMILAP_1069
AX00813	20170223B	WMWMILAP_1069
AX00814	20170223B	WMWMILAP_1069
AX00815	20170223B	WMWMILAP_1069
AX00816	20170223B	WMWMILAP_1069
AX00847	20170223B	WMWMILAP_1069
AX00848	20170223B	WMWMILAP_1069
AX00849	20170223B	WMWMILAP_1069
AX00850	20170223B	WMWMILAP_1069
AX00851	20170125	WMWMILAP_1069



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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch except batch 20170125 since this is a dissolved sample and does not get digested.
- 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 with the following exceptions:

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AX00811

The concentration of this analyte in the sample was greater than 3.3X times the concentration of the matrix spike added during digestion, 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 without a dilution with the following exceptions: The following samples were diluted due to sample concentrations from the undiluted analysis were over the high standard of the calibration curve. For this Batch the undiluted dilution factor was 1.0. The following samples were diluted 1: 10 by adding 9mL of water to 1mL of the undiluted digested sample for a total volume of 10 mL. This gave a dilution factor of 10X.

Sample ID	Analyte	Dilution Factor
AX00528	Calcium	10X
AX00529	Calcium	10X
AX00531	Calcium	10X
AX00533	Calcium	10X
AX00534	Calcium	10X
AX00535	Calcium	10X
AX00653	Calcium	10X
AX00654	Calcium	10X
AX00655	Calcium	10X
AX00656	Calcium	10X
AX00659	Calcium	10X
AX00660	Calcium	10X
AX00662	Calcium	10X
AX00811	Calcium	10X
AX00811MS	Calcium	10X
AX00811MSD	Calcium	10X
AX00812	Calcium	10X
AX00813	Calcium	10X
AX00815	Calcium	10X
AX00816	Calcium	10X
AX00847	Calcium	10X
AX00848	Calcium	10X
AX00850	Calcium	10X
AX00851	Calcium	10X
AX00851MS	Calcium	10X
AX00851MSD	Calcium	10X

8. The raw data results include both results corrected for dilution and results not corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1069

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AX00527	585099	WMWMILAP_1069
AX00528	585099	WMWMILAP_1069
AX00529	585099	WMWMILAP_1069
AX00530	585099	WMWMILAP_1069
AX00531	585099	WMWMILAP_1069
AX00532	585099	WMWMILAP_1069
AX00533	585099	WMWMILAP_1069
AX00534	585099	WMWMILAP_1069
AX00535	585099	WMWMILAP_1069
AX00536	585099	WMWMILAP_1069
AX00653	585100	WMWMILAP_1069
AX00654	585100	WMWMILAP_1069
AX00655	585100	WMWMILAP_1069
AX00656	585100	WMWMILAP_1069
AX00657	585100	WMWMILAP_1069
AX00659	585100	WMWMILAP_1069
AX00660	585100	WMWMILAP_1069
AX00662	585100	WMWMILAP_1069
AX00663	585113	WMWMILAP_1069
AX00811	585614	WMWMILAP_1069
AX00812	585614	WMWMILAP_1069
AX00813	585614	WMWMILAP_1069
AX00814	585614	WMWMILAP_1069
AX00815	585614	WMWMILAP_1069
AX00816	585614	WMWMILAP_1069
AX00847	585614	WMWMILAP_1069
AX00848	585614	WMWMILAP_1069
AX00849	585614	WMWMILAP_1069
AX00850	585614	WMWMILAP_1069
AX00851	586979	WMWMILAP_1069

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, except batch 586979 which is a dissolved sample and was not digested.
- 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

Miller Ash Pond

WMWMILAP_1069

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AX00527	585238	WMWMILAP_1069
AX00528	585642	WMWMILAP_1069
AX00529	585642	WMWMILAP_1069
AX00530	585642	WMWMILAP_1069
AX00531	585642	WMWMILAP_1069
AX00532	585642	WMWMILAP_1069
AX00533	585642	WMWMILAP_1069
AX00534	585642	WMWMILAP_1069
AX00535	585642	WMWMILAP_1069
AX00536	585642	WMWMILAP_1069
AX00653	585642	WMWMILAP_1069
AX00654	585643	WMWMILAP_1069
AX00655	585643	WMWMILAP_1069
AX00656	585643	WMWMILAP_1069
AX00657	585643	WMWMILAP_1069
AX00658	585643	WMWMILAP_1069
AX00659	585643	WMWMILAP_1069
AX00660	585643	WMWMILAP_1069
AX00662	585643	WMWMILAP_1069
AX00663	585643	WMWMILAP_1069
AX00811	585643	WMWMILAP_1069
AX00812	585643	WMWMILAP_1069
AX00813	585644	WMWMILAP_1069
AX00814	585644	WMWMILAP_1069
AX00815	585644	WMWMILAP_1069
AX00816	585644	WMWMILAP_1069
AX00847	585644	WMWMILAP_1069
AX00848	585644	WMWMILAP_1069
AX00849	585644	WMWMILAP_1069
AX00850	585644	WMWMILAP_1069
AX00851	585641	WMWMILAP_1069



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 except AX00851msd. AX00851msd was run 4 times before a good signal response was established. The last run had a good signal response and was reported in LabWorks. Batch 585238, 3 of the CCBs had a dip in signal response, but they were not rerun because they were still less than the lowest standard even at the highest point of the run.

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

Miller Ash Pond

WMWMILAP_1069

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>
AX00527	584979	WMWMILAP_1069
AX00528	584979	WMWMILAP_1069
AX00529	584979	WMWMILAP_1069
AX00530	584979	WMWMILAP_1069
AX00531	584979	WMWMILAP_1069
AX00532	584979	WMWMILAP_1069
AX00533	584979	WMWMILAP_1069
AX00534	584979	WMWMILAP_1069
AX00535	584979	WMWMILAP_1069
AX00536	584979	WMWMILAP_1069
AX00653	585364	WMWMILAP_1069
AX00654	585364	WMWMILAP_1069
AX00655	585364	WMWMILAP_1069
AX00656	585364	WMWMILAP_1069
AX00657	585364	WMWMILAP_1069
AX00659	585364	WMWMILAP_1069
AX00660	585364	WMWMILAP_1069
AX00662	585364	WMWMILAP_1069
AX00663	585364	WMWMILAP_1069
AX00811	585364	WMWMILAP_1069
AX00812	585365	WMWMILAP_1069
AX00813	585365	WMWMILAP_1069
AX00814	585365	WMWMILAP_1069
AX00815	585365	WMWMILAP_1069
AX00816	585365	WMWMILAP_1069
AX00847	585365	WMWMILAP_1069
AX00848	585365	WMWMILAP_1069
AX00849	585365	WMWMILAP_1069
AX00850	585365	WMWMILAP_1069



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 0.5 mg 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 2.5 mg and 200 mg residue with the exception of AX00657 and AX00663, which the results were <2.5 mg.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX00527

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0952	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.192	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		1	0.1	0.5	37.8	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	J 0.0201	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		25	276	mg/L
* Chloride, Total	SES	1/10/2017	EPA 300.0		1	0.04	0.25	17.2	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/10/2017	EPA 300.0		1	0.3	1	77.9	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX00527

Sample	Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20	
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20	
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20	
AX00527	Mercury, Total by CVAA	mg/L	0.000112	0.0005	0.004	0.00370	0.00368	0.00369	0.0034 to 0.0046	92.5	70 to 130	0.504	20	
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20	
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20	
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20	
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20	
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20	
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20	
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20	
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20	
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20	
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20	
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX00527

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX00528

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0323	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	2.71	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		10	1.0	5.0	214	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00298	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	J 0.0254	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00431	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00273	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	J 0.000242	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		100	1250	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		10	0.40	2.5	31.7	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		10	3.0	10	707	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX00528

Sample	Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20	
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20	
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20	
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20	
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20	
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20	
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20	
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20	
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20	
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20	
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20	
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20	
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20	
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20	
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX00528

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AX00529

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0318	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	2.77	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		10	1.0	5.0	230	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00273	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	J 0.0265	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00433	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00274	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	J 0.000236	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		100	1190	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		10	0.40	2.5	32.5	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		10	3.0	10	728	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AX00529

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20	
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20	
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20	
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20	
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20	
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20	
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20	
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20	
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20	
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20	
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20	
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20	
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20	
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20	
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AX00529

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX00530

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0727	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.190	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		1	0.1	0.5	30.3	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	J 0.0226	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		25	219	mg/L
* Chloride, Total	SES	1/10/2017	EPA 300.0		1	0.04	0.25	6.40	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	J 0.028	mg/L
* Sulfate, Total	SES	1/10/2017	EPA 300.0		1	0.3	1	45.5	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX00530

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115		101	70 to 130		4.39	20
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115		93.2	70 to 130		5.89	20
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115		104	70 to 130		4.42	20
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115		90.6	70 to 130		5.88	20
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115		98.6	70 to 130		3.70	20
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115		104	70 to 130		4.31	20
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15		96.7	70 to 130		2.40	20
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115		90.5	70 to 130		5.58	20
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046		96.2	70 to 130		2.20	20
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115		94.9	70 to 130		5.51	20
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75		96.2	70 to 130		5.22	20
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115		105	70 to 130		4.98	20
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115		90.2	70 to 130		6.56	20
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115		102	70 to 130		4.43	20
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23		113	70 to 130		0.515	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX00530

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX00531

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	0.0119	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0229	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.584	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		10	1.0	5.0	282	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00787	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	0.124	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0219	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		125	1500	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		20	0.80	5	51.4	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	J 0.109	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		20	6.0	20	833	mg/L

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX00531

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX00531

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX00532

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	J 0.00251	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0791	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.196	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		1	0.1	0.5	4.15	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	0.156	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0303	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		50	608	mg/L
* Chloride, Total	SES	1/10/2017	EPA 300.0		1	0.04	0.25	24.3	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	J 0.115	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		5	1.5	5	131	mg/L

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Expiration: June 30, 2017

Comments:

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX00532

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX00532

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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 FAX (205) 257-1654

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX00533

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0144	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.572	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		10	1.0	5.0	329	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	J 0.000248	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0291	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	0.102	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00278	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		125	1510	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		20	0.80	5	48.8	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	J 0.130	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		20	6.0	20	896	mg/L

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX00533

Sample	Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20	
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20	
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20	
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20	
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20	
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20	
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20	
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20	
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20	
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20	
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20	
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20	
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20	
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20	
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20	

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX00533

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX00535	Solids, Dissolved	mg/L	1.00	25				948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20	
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20	
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20	

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX00534

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0256	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.848	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		10	1.0	5.0	140	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0504	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	0.0842	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00476	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		50	918	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		10	0.40	2.5	25.1	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		10	3.0	10	543	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX00534

Sample	Analysis	Units	MB	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20	
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20	
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20	
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20	
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20	
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20	
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20	
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20	
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20	
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20	
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20	
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20	
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20	
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20	
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX00534

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX00535

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0256	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	0.850	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		10	1.0	5.0	137	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0519	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	0.0902	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00515	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		50	928	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		10	0.40	2.5	24.8	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		10	3.0	10	545	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX00535

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX00535

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

CC:

Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00536

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	1/31/2017	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	1/31/2017	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	1/31/2017	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/11/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	1/10/2017	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	1/10/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/10/2017	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00536

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	Limit
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit		
AX00536	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.101	0.0966	0.0983	0.085 to 0.115	101	70 to 130	4.39	20
AX00536	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0902	0.0844	0.0904	0.085 to 0.115	90.2	70 to 130	6.56	20
AX00536	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.102	0.0978	0.0993	0.085 to 0.115	102	70 to 130	4.43	20
AX00536	Lithium, Total	mg/L	0.000116	0.022	0.20	0.226	0.225	0.183	0.17 to 0.23	113	70 to 130	0.515	20
AX00536	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.0994	0.110	0.085 to 0.115	104	70 to 130	4.31	20
AX00536	Boron, Total	mg/L	-0.00122	0.044	1.00	0.967	0.944	0.997	0.85 to 1.15	96.7	70 to 130	2.40	20
AX00536	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0905	0.0856	0.0917	0.085 to 0.115	90.5	70 to 130	5.58	20
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20
AX00536	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.0932	0.0879	0.0927	0.085 to 0.115	93.2	70 to 130	5.89	20
AX00536	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.104	0.0990	0.100	0.085 to 0.115	104	70 to 130	4.42	20
AX00536	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.0906	0.0855	0.0897	0.085 to 0.115	90.6	70 to 130	5.88	20
AX00536	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0986	0.0950	0.100	0.085 to 0.115	98.6	70 to 130	3.70	20
AX00536	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0949	0.0898	0.0959	0.085 to 0.115	94.9	70 to 130	5.51	20
AX00536	Calcium, Total	mg/L	-0.0408	0.22	5.00	4.81	4.56	4.45	4.25 to 5.75	96.2	70 to 130	5.22	20
AX00536	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.105	0.100	0.102	0.085 to 0.115	105	70 to 130	4.98	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 09-Jan-17
 Customer ID:
 Delivery Date: 10-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00536

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00535	Solids, Dissolved	mg/L	1.00	25			948	58.0	40 to 60			1.07	5
AX00536	Chloride, Total	mg/L	0.00	0.25	10.00	9.72	0.00	9.98	9 to 11	97.2	80 to 120	0.00	20
AX00536	Fluoride, Total	mg/L	0.00	0.3	2.00	2.22	0.00	2.20	1.8 to 2.2	111	80 to 120	0.00	20
AX00536	Sulfate, Total	mg/L	-0.459	1.0	20.00	20.2	-0.441	20.8	18 to 22	101	80 to 120	0.00	20

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Expiration: June 30, 2017

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX00653

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	J 0.00220	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0125	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	0.696	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	62.6	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0164	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	0.0743	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		50	832	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	9.94	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		20	6.0	20	480	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX00653

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00653	Mercury, Total by CVAA	mg/L	0.0000887	0.0005	0.004	0.00385	0.00394	0.00398	0.0034 to 0.0046	96.2	70 to 130	2.20	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX00653

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-9D Dup

Laboratory ID Number: AX00654

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	J 0.00225	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0127	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	0.694	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	62.1	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0161	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	0.0731	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		50	808	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	9.86	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		20	6.0	20	480	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-9D Dup

Laboratory ID Number: AX00654

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-9D Dup

Laboratory ID Number: AX00654

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX00655

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0368	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	1.52	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	110	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	J 0.0487	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0393	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	1120	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	21.7	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	J 0.215	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		30	9.0	30	604	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX00655

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX00655

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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Laboratory certification ID: E571114

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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX00656

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	J 0.00127	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0452	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	1.01	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	81.2	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	J 0.00311	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	J 0.0472	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0195	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	772	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	16.8	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	J 0.095	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		20	6.0	20	483	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX00656

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20

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Expiration: June 30, 2017

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX00656

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00657

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00657

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20

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Comments:

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00657

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX00659

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	J 0.00267	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0369	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	0.705	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	85.3	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	0.141	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0280	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		50	610	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	21.3	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	J 0.034	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		15	4.5	15	257	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX00659

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX00659

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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Expiration: June 30, 2017

Comments:

CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX00660

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	J 0.00185	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0304	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	0.733	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	107	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	0.107	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0108	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		50	714	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	22.2	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		20	6.0	20	333	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX00660

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20	
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20	
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20	
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20	
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20	
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20	
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20	
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20	
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20	
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20	
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20	
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20	
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20	
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20	
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20	

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX00660

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX00662

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	0.0135	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0150	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	0.915	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	319	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	0.227	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	0.0670	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		125	1660	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		25	1.00	6.25	45.2	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	J 0.114	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		25	7.5	25	995	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX00662

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00662	Selenium, Total	mg/L	0.0000549	0.0044	0.10	0.0955	0.0987	0.100	0.085 to 0.115	95.5	70 to 130	3.29	20
AX00662	Barium, Total	mg/L	0.00000567	0.0044	0.10	0.107	0.110	0.0927	0.085 to 0.115	91.7	70 to 130	2.64	20
AX00662	Antimony, Total	mg/L	0.0000823	0.00132	0.10	0.0869	0.0901	0.0904	0.085 to 0.115	86.9	70 to 130	3.61	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00662	Cobalt, Total	mg/L	0.0000136	0.0044	0.10	0.0875	0.0909	0.0917	0.085 to 0.115	87.5	70 to 130	3.76	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00662	Beryllium, Total	mg/L	0.0000409	0.00132	0.10	0.104	0.100	0.110	0.085 to 0.115	104	70 to 130	3.70	20
AX00662	Molybdenum, Total	mg/L	0.0000209	0.0044	0.10	0.159	0.166	0.0897	0.085 to 0.115	92.3	70 to 130	4.17	20
AX00662	Chromium, Total	mg/L	0.0000204	0.0044	0.10	0.102	0.108	0.0983	0.085 to 0.115	102	70 to 130	5.57	20
AX00662	Thallium, Total	mg/L	0.0000359	0.00044	0.10	0.109	0.108	0.100	0.085 to 0.115	109	70 to 130	1.35	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00662	Arsenic, Total	mg/L	0.0000238	0.0022	0.10	0.118	0.124	0.0993	0.085 to 0.115	105	70 to 130	4.52	20
AX00662	Cadmium, Total	mg/L	0.0000162	0.00044	0.10	0.0901	0.0932	0.0959	0.085 to 0.115	90.1	70 to 130	3.30	20
AX00662	Lead, Total	mg/L	0.0000379	0.0022	0.10	0.111	0.110	0.102	0.085 to 0.115	111	70 to 130	1.44	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX00662

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX00660	Solids, Dissolved	mg/L	3.00	25				740	54.0	40 to 60			1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5		0.00	9.99	9 to 11	105	80 to 120	0.00	20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15		0.00	2.14	1.8 to 2.2	108	80 to 120	0.00	20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0		-0.446	20.5	18 to 22	105	80 to 120	0.00	20

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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  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00663

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	ABB	1/12/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	1/12/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/12/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/12/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/12/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	1/11/2017	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	1/11/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/11/2017	EPA 300.0		1	0.3	1	U Not Detected	mg/L

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Comments:

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00663

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00663	Chromium, Total	mg/L	0.0000594	0.0044	0.10	0.100	0.105	0.0996	0.085 to 0.115	100	70 to 130	4.19	20
AX00663	Thallium, Total	mg/L	0.0000356	0.00044	0.10	0.103	0.107	0.101	0.085 to 0.115	103	70 to 130	4.22	20
AX00663	Beryllium, Total	mg/L	0.0000395	0.00132	0.10	0.103	0.108	0.107	0.085 to 0.115	103	70 to 130	5.09	20
AX00663	Cobalt, Total	mg/L	0.00000721	0.0044	0.10	0.0886	0.0917	0.0914	0.085 to 0.115	88.6	70 to 130	3.46	20
AX00663	Molybdenum, Total	mg/L	0.00000940	0.0044	0.10	0.0885	0.0924	0.0907	0.085 to 0.115	88.5	70 to 130	4.24	20
AX00663	Arsenic, Total	mg/L	0.0000170	0.0022	0.10	0.0996	0.104	0.0971	0.085 to 0.115	99.6	70 to 130	4.03	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20
AX00663	Antimony, Total	mg/L	0.0000653	0.00132	0.10	0.0882	0.0917	0.0879	0.085 to 0.115	88.2	70 to 130	3.85	20
AX00663	Lead, Total	mg/L	0.0000404	0.0022	0.10	0.105	0.110	0.104	0.085 to 0.115	105	70 to 130	4.23	20
AX00663	Selenium, Total	mg/L	0.0000308	0.0044	0.10	0.0948	0.0995	0.0956	0.085 to 0.115	94.8	70 to 130	4.83	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00663	Barium, Total	mg/L	0.0000000218	0.0044	0.10	0.0925	0.0961	0.0914	0.085 to 0.115	92.5	70 to 130	3.84	20
AX00663	Cadmium, Total	mg/L	0.0000124	0.00044	0.10	0.0918	0.0958	0.0931	0.085 to 0.115	91.8	70 to 130	4.24	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 10-Jan-17
 Customer ID:
 Delivery Date: 11-Jan-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX00663

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec			Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit	
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60				1.79	5
AX00663	Chloride, Total	mg/L	0.00	0.25	10.00	10.5	0.00	9.99	9 to 11	105	80 to 120	0.00		20
AX00663	Fluoride, Total	mg/L	0.00	0.3	2.00	2.15	0.00	2.14	1.8 to 2.2	108	80 to 120	0.00		20
AX00663	Sulfate, Total	mg/L	-0.462	1.0	20.00	21.0	-0.446	20.5	18 to 22	105	80 to 120	0.00		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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX00811

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00286	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0603	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/2/2017	EPA 200.7		1	0.02	0.1	J 0.0588	mg/L
* Calcium, Total	HRG	2/2/2017	EPA 200.7		10	1.0	5.0	112	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	J 0.00431	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/2/2017	EPA 200.7		1	0.01	0.05	0.137	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0101	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	920	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	11.6	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		10	3.0	10	515	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, 2017

Comments: Recovery of the Matrix Spike for Calcium failed.
 The spike amount used was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX00811

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20
AX00811	Boron, Total	mg/L	-0.00230	0.044	1.00	1.08	1.07	0.993	0.85 to 1.15	102	70 to 130	0.471	20
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20
AX00811	Calcium, Total	mg/L	0.00236	0.22	5.00	114	118	4.93	4.25 to 5.75	40.0	70 to 130	3.45	20
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20
AX00811	Lithium, Total	mg/L	0.000285	0.022	0.20	0.355	0.353	0.228	0.17 to 0.23	109	70 to 130	0.631	20
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	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, 2017

Comments: Recovery of the Matrix Spike for Calcium failed.
 The spike amount used was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX00811

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00660	Solids, Dissolved	mg/L	3.00	25			740	54.0	40 to 60			1.79	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Recovery of the Matrix Spike for Calcium failed.
 The spike amount used was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX00812

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00168	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0157	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	J 0.0976	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	218	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0669	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.190	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		125	2320	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	6.72	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		20	6.0	20	1550	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX00812

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20	
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20	
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20	
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20	
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20	
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20	
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20	
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20	
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20	
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20	
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20	
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20	
AX00812	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00398	0.00398	0.00397	0.0034 to 0.0046	99.4	70 to 130	0.126	20	
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20	
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX00812

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX00813

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00196	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0208	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	2.04	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	170	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.205	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0322	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	1570	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	8.33	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	0.472	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		20	6.0	20	855	mg/L

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX00813

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046	96.3	70 to 130	0.104	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX00813

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX00814

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00331	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0183	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	J 0.0795	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		1	0.1	0.5	15.1	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0198	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.0834	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		25	308	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	6.90	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		5	1.5	5	128	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX00814

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20	
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20	
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20	
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20	
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20	
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20	
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20	
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20	
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20	
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20	
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20	
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20	
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046	96.3	70 to 130	0.104	20	
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20	
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX00814

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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CC:

Alabama Power General Test Laboratory
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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX00815

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00197	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0614	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	J 0.0719	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	47.2	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	J 0.0410	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		25	338	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	11.7	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		1	0.3	1	87.1	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX00815

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20	
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20	
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20	
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20	
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20	
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20	
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20	
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20	
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20	
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20	
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20	
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20	
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046	96.3	70 to 130	0.104	20	
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20	
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20	

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX00815

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Expiration: June 30, 2017

Comments:

CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX00816

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00291	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0122	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	3.05	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	124	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	J 0.00244	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.172	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0866	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	1310	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	6.65	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	J 0.210	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		10	3.0	10	731	mg/L

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX00816

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115		90.0	70 to 130		9.15	20
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115		97.6	70 to 130		7.49	20
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115		105	70 to 130		14.3	20
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23		109	70 to 130		0.605	20
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115		106	70 to 130		10.7	20
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115		102	70 to 130		6.15	20
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115		92.8	70 to 130		6.23	20
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75		85.3	70 to 130		0.640	20
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115		98.8	70 to 130		9.59	20
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115		97.2	70 to 130		11.4	20
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15		101	70 to 130		0.245	20
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115		105	70 to 130		6.04	20
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115		92.4	70 to 130		5.07	20
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115		96.8	70 to 130		8.27	20
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046		96.3	70 to 130		0.104	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 11-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX00816

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX00847

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0224	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	0.358	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	62.5	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	J 0.00419	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.151	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		50	866	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	8.44	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		10	3.0	10	555	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX00847

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046	96.3	70 to 130	0.104	20
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX00847

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Comments:

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX00848

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0291	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	J 0.0268	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	163	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	J 0.00316	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.120	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	1180	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	6.29	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		10	3.0	10	654	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX00848

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046	96.3	70 to 130	0.104	20
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX00848

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX00849

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		1	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total	SES	1/12/2017	EPA 300.0		1	0.04	0.25	U Not Detected	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	U Not Detected	mg/L
* Sulfate, Total	SES	1/12/2017	EPA 300.0		1	0.3	1	U Not Detected	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, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX00849

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115		90.0	70 to 130		9.15	20
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115		97.6	70 to 130		7.49	20
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115		105	70 to 130		14.3	20
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115		92.8	70 to 130		6.23	20
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75		85.3	70 to 130		0.640	20
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115		98.8	70 to 130		9.59	20
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115		97.2	70 to 130		11.4	20
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115		92.4	70 to 130		5.07	20
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115		96.8	70 to 130		8.27	20
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046		96.3	70 to 130		0.104	20
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15		101	70 to 130		0.245	20
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115		105	70 to 130		6.04	20
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115		106	70 to 130		10.7	20
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115		102	70 to 130		6.15	20
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23		109	70 to 130		0.605	20

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX00849

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

CC:

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX00850

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	J 0.000701	mg/L
* Arsenic, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	J 0.00390	mg/L
* Barium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	0.0582	mg/L
* Beryllium, Total	ABB	1/20/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	2/23/2017	EPA 200.7		1	0.02	0.1	0.471	mg/L
* Calcium, Total	HRG	2/23/2017	EPA 200.7		10	1.0	5.0	47.7	mg/L
* Cadmium, Total	ABB	1/20/2017	EPA 200.8		5	0.0002	0.0010	U Not Detected	mg/L
* Cobalt, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	2/23/2017	EPA 200.7		1	0.01	0.05	0.166	mg/L
* Molybdenum, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	J 0.00490	mg/L
* Lead, Total	ABB	1/20/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	ABB	1/20/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	ABB	1/20/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	1/17/2017	SM 2540C		1		100	812	mg/L
* Chloride, Total	SES	1/13/2017	EPA 300.0		10	0.40	2.5	29.8	mg/L
* Fluoride, Total	SES	1/12/2017	EPA 300.0		1	0.01	0.3	0.609	mg/L
* Sulfate, Total	SES	1/13/2017	EPA 300.0		10	3.0	10	281	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX00850

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX00850	Antimony, Total	mg/L	0.0000496	0.00132	0.10	0.0907	0.0828	0.0938	0.085 to 0.115	90.0	70 to 130	9.15	20	
AX00850	Beryllium, Total	mg/L	0.00000244	0.00132	0.10	0.105	0.0907	0.107	0.085 to 0.115	105	70 to 130	14.3	20	
AX00850	Molybdenum, Total	mg/L	0.00000974	0.0044	0.10	0.102	0.0951	0.0936	0.085 to 0.115	97.6	70 to 130	7.49	20	
AX00850	Lithium, Total	mg/L	-0.000133	0.022	0.20	0.384	0.382	0.186	0.17 to 0.23	109	70 to 130	0.605	20	
AX00850	Arsenic, Total	mg/L	0.00000819	0.0022	0.10	0.110	0.0986	0.0989	0.085 to 0.115	106	70 to 130	10.7	20	
AX00850	Chromium, Total	mg/L	-0.00000268	0.0044	0.10	0.102	0.0955	0.101	0.085 to 0.115	102	70 to 130	6.15	20	
AX00850	Cadmium, Total	mg/L	0.00000244	0.00044	0.10	0.0928	0.0872	0.101	0.085 to 0.115	92.8	70 to 130	6.23	20	
AX00850	Calcium, Total	mg/L	-0.00867	0.22	5.00	52.0	52.3	4.75	4.25 to 5.75	85.3	70 to 130	0.640	20	
AX00850	Lead, Total	mg/L	0.00000167	0.0022	0.10	0.0988	0.0897	0.0980	0.085 to 0.115	98.8	70 to 130	9.59	20	
AX00850	Selenium, Total	mg/L	0.0000335	0.0044	0.10	0.0972	0.0867	0.0996	0.085 to 0.115	97.2	70 to 130	11.4	20	
AX00850	Barium, Total	mg/L	0.00000232	0.0044	0.10	0.151	0.143	0.0934	0.085 to 0.115	92.4	70 to 130	5.07	20	
AX00850	Thallium, Total	mg/L	0.00000256	0.00044	0.10	0.0968	0.0891	0.0959	0.085 to 0.115	96.8	70 to 130	8.27	20	
AX01202	Mercury, Total by CVAA	mg/L	0.000101	0.0005	0.004	0.00385	0.00385	0.00397	0.0034 to 0.0046	96.3	70 to 130	0.104	20	
AX00850	Boron, Total	mg/L	-0.000402	0.044	1.00	1.48	1.48	0.934	0.85 to 1.15	101	70 to 130	0.245	20	
AX00850	Cobalt, Total	mg/L	-0.00000328	0.0044	0.10	0.105	0.0989	0.104	0.085 to 0.115	105	70 to 130	6.04	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX00850

Sample	Analysis	Units	MB	MB			Sample		LFB	Rec		Prec	
				Limit	Spike	LFM	Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX00815	Solids, Dissolved	mg/L	3.00	25			330	54.0	40 to 60			1.20	5
AX00816	Chloride, Total	mg/L	0.00	0.25	10.00	16.3	6.62	9.98	9 to 11	96.5	80 to 120	0.483	20
AX00816	Fluoride, Total	mg/L	0.00	0.3	2.00	2.04	0.211	1.99	1.8 to 2.2	91.5	80 to 120	0.475	20
AX00816	Sulfate, Total	mg/L	-0.447	1.0	200	960	722	21.0	18 to 22	114	80 to 120	1.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - PZ-5 Diss

Laboratory ID Number: AX00851

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/1/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00326	mg/L
* Barium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0464	mg/L
* Beryllium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Dissolved	HRG	1/25/2017	EPA 200.7		1	0.02	0.1	0.485	mg/L
* Calcium, Dissolved	HRG	1/25/2017	EPA 200.7		10	1.0	5.0	44.4	mg/L
* Cadmium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Dissolved by CVAA	MCW	1/20/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Dissolved	HRG	1/25/2017	EPA 200.7		1	0.01	0.05	0.138	mg/L
* Molybdenum, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00411	mg/L
* Lead, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00523	mg/L
* Thallium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Chloride, Dissolved	SES	1/13/2017	EPA 300.0		10	0.40	2.5	30.3	mg/L
Fluoride, Dissolved	SES	1/12/2017	EPA 300.0		1	0.01	0.3	0.608	mg/L
Sulfate, Dissolved	SES	1/13/2017	EPA 300.0		10	3.0	10	266	mg/L

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Comments:

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - PZ-5 Diss

Laboratory ID Number: AX00851

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AX00851	Lithium, Dissolved	mg/L	0.000342	0.022	0.20	0.324	0.324	0.202	0.17 to 0.23	92.9	70 to 130	0.0324	20
AX00851	Lead, Dissolved	mg/L	0.00000216	0.0022	0.10	0.102	0.0949			102	70 to 130	6.87	20
AX00851	Mercury, Dissolved by CVAA	mg/L	0.000108	0.0005	0.004	0.00370	0.00385	0.00400	0.0034 to 0.0046	92.6	70 to 130	3.83	20
AX00851	Antimony, Dissolved	mg/L	0.0000198	0.00132	0.10	0.0966	0.0897			96.6	70 to 130	7.40	20
AX00851	Barium, Dissolved	mg/L	-0.00000698	0.0044	0.10	0.141	0.132			94.1	70 to 130	6.01	20
AX00851	Arsenic, Dissolved	mg/L	0.00000675	0.0022	0.10	0.103	0.0952			99.4	70 to 130	7.54	20
AX00851	Calcium, Dissolved	mg/L	-0.00855	0.22	5.00	50.5	48.7	4.96	4.25 to 5.75	123	70 to 130	3.74	20
AX00851	Cobalt, Dissolved	mg/L	-0.000000404	0.0044	0.10	0.101	0.0965			101	70 to 130	4.68	20
AX00851	Molybdenum, Dissolved	mg/L	0.00000674	0.0044	0.10	0.0986	0.0931			94.4	70 to 130	5.71	20
AX00851	Thallium, Dissolved	mg/L	-0.0000253	0.00044	0.10	0.100	0.0938			100	70 to 130	6.84	20
AX00851	Beryllium, Dissolved	mg/L	0.000101	0.00132	0.10	0.0994	0.101			99.4	70 to 130	2.06	20
AX00851	Selenium, Dissolved	mg/L	0.0000375	0.0044	0.10	0.0987	0.0907			93.5	70 to 130	8.43	20
AX00851	Boron, Dissolved	mg/L	0.00440	0.044	1.00	1.49	1.49	0.997	0.85 to 1.15	101	70 to 130	0.187	20
AX00851	Cadmium, Dissolved	mg/L	0.0000163	0.00044	0.10	0.0950	0.0882			95.0	70 to 130	7.44	20
AX00851	Chromium, Dissolved	mg/L	-0.000000431	0.0044	0.10	0.102	0.0958			102	70 to 130	6.01	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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 12-Jan-17
 Customer ID:
 Delivery Date: 12-Jan-17

Description: Miller Ash Pond - PZ-5 Diss

Laboratory ID Number: AX00851

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX00851	Chloride, Dissolved	mg/L	0.00	0.25	100	133	30.4	9.99	9 to 11	103	80 to 120	0.286	20
AX00851	Fluoride, Dissolved	mg/L	0.00	0.3	2.00	2.47	0.604	1.93	1.8 to 2.2	93.1	80 to 120	0.660	20
AX00851	Sulfate, Dissolved	mg/L	-0.456	1.0	200	484	264	20.6	18 to 22	109	80 to 120	0.665	20

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 Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2017

Comments:

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 01/10/2017 08:30

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Jason Rouss"/>	Location	<input type="text" value="Miller Ash Pond"/>

Analysis Requested

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-15	01/09/2017	12:55	3	Groundwater		AX00527
MW-16	01/09/2017	14:10	3	Groundwater		AX00528
MW-16 Dup	01/09/2017	14:10	3	Sample Duplicate		AX00529
MW-14	01/09/2017	15:30	3	Groundwater		AX00530

Relinquished By	Received By	Date/Time
		01/09/2017 17:07
		01/10/2017 08:09

SmarTroll ID <input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID <input type="text" value="4677-23342-4-1"/>	
	Cooler Temp <input type="text" value="1.0 degrees C"/>
	Thermometer ID <input type="text" value="5408-27568-2-2"/>
	pH Strip ID <input type="text" value="5521-28271-20-15"/>



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

 Field Complete

 Lab Complete

 Lab ETA 01/10/2017 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschadl	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments			

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	01/09/2017	13:25	3	Groundwater		AX00531
MW-3S	01/09/2017	14:30	3	Groundwater		AX00532
MW-4	01/09/2017	15:35	3	Groundwater		AX00533
MW-6	01/09/2017	16:30	3	Groundwater		AX00534
MW-6 DUP	01/09/2017	16:30	3	Sample Duplicate		AX00535
FB-1	01/09/2017	16:50	3	Field Blank		AX00536

Relinquished By	Received By	Date/Time
<i>Ben Rothschadl</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.01.10 09:18:59 -0600</small>	01/10/2017 09:18

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
	Cooler Temp		1.0 degrees C
	Thermometer ID		5408-27568-2-
	pH Strip ID	5521-28271-20-15	



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

Field Complete

Lab Complete

Lab ETA 01/11/2017 08:00

Requested Complete Date
Site Representative
Collector

Results To
Requested By
Location

Analysis Requested
Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9D	01/10/2017	10:53	3	Groundwater		AX00653
MW-9D DUP	01/10/2017	10:53	3	Sample Duplicate		AX00654
MW-8S	01/10/2017	13:13	3	Groundwater		AX00655
MW-8D	01/10/2017	13:58	3	Groundwater		AX00656
FB-3	01/10/2017	14:06	3	Field Blank		AX00657

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.01.11 08:43:13 -0600</small>	01/11/2017 08:43

SmarTroll ID	<input type="text" value="5151-26193-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="5160-26211-1-1"/>	
Cooler Temp	<input type="text" value="1.3 degrees C"/>	
Thermometer ID	<input type="text" value="5408-27568-2-2"/>	
pH Strip ID	<input type="text" value="5521-28271-20-15"/>	



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Jason Rouss"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle"/>		
Comments	<input type="text" value="AX00661 (PZ-5) was deleted and re-sampled due to black substance present in Bottle 3."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-7S	01/10/2017	09:47	3	Groundwater		AX00659
MW-7D	01/10/2017	10:52	3	Groundwater		AX00660
MW-5	01/10/2017	15:07	3	Groundwater		AX00662
FB-2	01/10/2017	15:18	3	Field Blank		AX00663

Relinquished By	Received By	Date/Time
		<input type="text" value="01/10/2017 17:27"/>
	<input type="text" value="Sarah Copeland"/> <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.01.11 08:49:24 -0600</small>	<input type="text" value="01/11/2017 08:49"/>

SmarTroll ID <input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID <input type="text" value="4677-23342-4-1"/>	Cooler Temp <input type="text" value="0.4 degrees C"/>
	Thermometer ID <input type="text" value="5480-27568-2-2"/>
	pH Strip ID <input type="text" value="5521-28271-20-15"/>



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

Field Complete

Lab Complete

Lab ETA 01/12/2017 08:00

Requested Complete Date	Routine
Site Representative	Jeff K. Baker
Collector	Jason Rouss

Results To	Dustin Brooks, John Pugh, Greg Dyer
Requested By	Greg Dyer
Location	Miller Ash Pond

Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle
Comments	

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	01/11/2017	12:53	3	Groundwater		AX00811
MW-2	01/11/2017	15:10	3	Groundwater		AX00812

Relinquished By	Received By	Date/Time
		01/11/2017 16:54
		01/12/2017 10:27

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

All metals and radiological bottles have pH < 2

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	5521-28271-20-15



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA **01/12/2017 08:30**

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments	Radium Duplicate collected at MW-13S		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	01/11/2017	11:30	3	Groundwater		AX00813
MW-13S	01/11/2017	12:50	5	Groundwater		AX00814
MW-13D	01/11/2017	14:33	3	Groundwater		AX00815
MW-10	01/11/2017	16:05	3	Groundwater		AX00816

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	<i>Stephen Pugh</i>	01/11/2017 17:04
<i>ATC</i>	<i>Kent King</i>	01/12/2017 10:28

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Cooler Temp	0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	5521-28271-20-15	



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 01/12/2017 15:45

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments			

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	01/12/2017	11:15	3	Groundwater		AX00848
EB-1	01/12/2017	11:55	3	Equipment Blank		AX00849

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: 2017.01.12 16:33:17 -0600</small>	01/12/2017 16:33

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2 <input type="checkbox"/> Cooler Temp 0.5 degrees C Thermometer ID 5408-27568-2-2 pH Strip ID 5521-28271-20-11
Turbidity ID	4677-23342-4-1	
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Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 01/12/2017 15:30

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer		
	Site Representative		Jeff K. Baker	Requested By	Greg Dyer
	Collector		Ben Rothschild		Location
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle				
Comments	Radium duplicate collected at MW-9S Re-sample of MW-9S.				

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9S	01/12/2017	12:57	5	Groundwater		AX00847

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: 2017.01.12 16:34:47 -0600</small>	01/12/2017 16:34

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp 0.4 degrees C Thermometer ID 5408-27568-2-2 pH Strip ID 5521-28271-20-11
Turbidity ID	3901-20010-2-2	
Page 113 of 114		



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA **01/12/2017 16:00**

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Miller Ash Pond
Analysis Requested	Bottle 1: Radium 226 & 228 (1) 1L bottle, Bottle 2: Metals and Hg (1) 500 mL bottle, Bottle 3: TDS and Anions (1) 500 mL bottle		
Comments	Re-sample of PZ-5 2.0 mL HNO3 added to bottle 2 and 3.0 mL HNO3 added to bottle 3 of AW00851 1/12/17 SGC AX00851 filtered using 0.45 um filter. ID 5470-27978-9-2		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	01/12/2017	12:52	3	Groundwater		AX00850
PZ-5DIS	01/12/2017	12:52	3	Groundwater	<input checked="" type="checkbox"/>	AX00851

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.01.12 16:35:45 -0600</small>	01/12/2017 16:35

SmarTroll ID	5151-26193-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	
Cooler Temp	0.5 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	5521-28271-20-11	

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: 400-132839-1

TestAmerica Sample Delivery Group: Miller Ash Pond (4)

Client Project/Site: CCR Plant Miller

For:

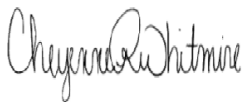
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

2/27/2017 10:53:01 AM

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 Miller

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Job ID: 400-132839-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-132839-1

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-289149: Insufficient sample volume was available to prep the following samples at the method required 1L. AX00527 MW-15 (400-132839-1), AX00528 MW-16 (400-132839-2), AX00529 MW-16 DUP (400-132839-3), AX00530 MW-14 (400-132839-4), AX00531 MW-3D (400-132839-5), AX00532 MW-3S (400-132839-6), AX00533 MW-4 (400-132839-7), AX00534 MW-6 (400-132839-8), AX00535 MW-6 DUP (400-132839-9) and AX00536 FB-1 (400-132839-10)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-289149: Insufficient volume was available for a sample duplicate (DU) to be run with the batch, an LCS/LCSD was prepared to demonstrate batch precision. AX00527 MW-15 (400-132839-1), AX00528 MW-16 (400-132839-2), AX00529 MW-16 DUP (400-132839-3), AX00530 MW-14 (400-132839-4), AX00531 MW-3D (400-132839-5), AX00532 MW-3S (400-132839-6), AX00533 MW-4 (400-132839-7), AX00534 MW-6 (400-132839-8), AX00535 MW-6 DUP (400-132839-9) and AX00536 FB-1 (400-132839-10)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-289253: The following samples were prepared at a reduced aliquot due to limited sample volume: AX00653 MW-9D (400-132839-11), AX00654 MW-9D DUP (400-132839-12), AX00655 MW-8S (400-132839-13), AX00656 MW-8D (400-132839-14), AX00657 FB-3 (400-132839-15), AX00659 MW-7S (400-132839-16), AX00660 MW-7D (400-132839-17), AX00662 MW-5 (400-132839-18), AX00663 FB-2 (400-132839-19), AX00811 MW-1 (400-132839-20), AX00812 MW-2 (400-132839-21), AX00813 MW-12 (400-132839-22), AX00814 MW-13S (400-132839-23), AX00814 MW-13S (400-132839-23[DU]), AX00815 MW-13D (400-132839-24), AX00816 MW-10 (400-132839-25), AX00847 MW-9S (400-132839-26), AX00847 MW-9S (400-132839-26[DU]), AX00848 MW-11 (400-132839-27), AX00849 EB-1 (400-132839-28), AX00850 PZ-5 (400-132839-29) and AX00851 PZ-5 DISS (400-132839-30) .

Method(s) PrecSep-21: Radium 226 Prep Batch 289147: Insufficient volume was available to prep the following samples at the method required 1L : AX00527 MW-15 (400-132839-1), AX00528 MW-16 (400-132839-2), AX00529 MW-16 DUP (400-132839-3), AX00530 MW-14 (400-132839-4), AX00531 MW-3D (400-132839-5), AX00532 MW-3S (400-132839-6), AX00533 MW-4 (400-132839-7), AX00534 MW-6 (400-132839-8), AX00535 MW-6 DUP (400-132839-9) and AX00536 FB-1 (400-132839-10).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-289147: Insufficient sample volume was available to perform a sample duplicate (DU) on the following samples, an LCS/LCSD was prepared to demonstrate batch precision: AX00527 MW-15 (400-132839-1), AX00528 MW-16 (400-132839-2), AX00529 MW-16 DUP (400-132839-3), AX00530 MW-14 (400-132839-4), AX00531 MW-3D (400-132839-5), AX00532 MW-3S (400-132839-6), AX00533 MW-4 (400-132839-7), AX00534 MW-6 (400-132839-8), AX00535 MW-6 DUP (400-132839-9) and AX00536 FB-1 (400-132839-10) .

Method(s) PrecSep-21: Radium-226 prep batch 160-289244: Insufficient volume was sent to prepare the following samples at the method required 1L, an LCS/LCSD was prepared to demonstrate batch precision: AX00653 MW-9D (400-132839-11), AX00654 MW-9D DUP (400-132839-12), AX00655 MW-8S (400-132839-13), AX00656 MW-8D (400-132839-14), AX00657 FB-3 (400-132839-15), AX00659 MW-7S (400-132839-16), AX00660 MW-7D (400-132839-17), AX00662 MW-5 (400-132839-18), AX00663 FB-2 (400-132839-19), AX00811 MW-1 (400-132839-20), AX00812 MW-2 (400-132839-21), AX00813 MW-12 (400-132839-22), AX00814 MW-13S (400-132839-23), AX00814 MW-13S (400-132839-23[DU]), AX00815 MW-13D (400-132839-24), AX00816 MW-10 (400-132839-25), AX00847 MW-9S (400-132839-26), AX00847 MW-9S (400-132839-26[DU]), AX00848 MW-11 (400-132839-27), AX00849 EB-1 (400-132839-28), AX00850 PZ-5 (400-132839-29) and AX00851 PZ-5 DISS (400-132839-30) .

Method Summary

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

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 Miller

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-132839-1	AX00527 MW-15	Water	01/09/17 12:55	01/19/17 14:12
400-132839-2	AX00528 MW-16	Water	01/09/17 14:10	01/19/17 14:12
400-132839-3	AX00529 MW-16 DUP	Water	01/09/17 14:10	01/19/17 14:12
400-132839-4	AX00530 MW-14	Water	01/09/17 15:30	01/19/17 14:12
400-132839-5	AX00531 MW-3D	Water	01/09/17 13:25	01/19/17 14:12
400-132839-6	AX00532 MW-3S	Water	01/09/17 14:30	01/19/17 14:12
400-132839-7	AX00533 MW-4	Water	01/09/17 15:35	01/19/17 14:12
400-132839-8	AX00534 MW-6	Water	01/09/17 16:30	01/19/17 14:12
400-132839-9	AX00535 MW-6 DUP	Water	01/09/17 16:30	01/19/17 14:12
400-132839-10	AX00536 FB-1	Water	01/09/17 16:50	01/19/17 14:12
400-132839-11	AX00653 MW-9D	Water	01/10/17 10:53	01/19/17 14:12
400-132839-12	AX00654 MW-9D DUP	Water	01/10/17 10:53	01/19/17 14:12
400-132839-13	AX00655 MW-8S	Water	01/10/17 13:13	01/19/17 14:12
400-132839-14	AX00656 MW-8D	Water	01/10/17 13:58	01/19/17 14:12
400-132839-15	AX00657 FB-3	Water	01/10/17 14:06	01/19/17 14:12
400-132839-16	AX00659 MW-7S	Water	01/10/17 09:47	01/19/17 14:12
400-132839-17	AX00660 MW-7D	Water	01/10/17 10:52	01/19/17 14:12
400-132839-18	AX00662 MW-5	Water	01/10/17 15:07	01/19/17 14:12
400-132839-19	AX00663 FB-2	Water	01/10/17 15:18	01/19/17 14:12
400-132839-20	AX00811 MW-1	Water	01/11/17 12:53	01/19/17 14:12
400-132839-21	AX00812 MW-2	Water	01/11/17 15:10	01/19/17 14:12
400-132839-22	AX00813 MW-12	Water	01/11/17 11:30	01/19/17 14:12
400-132839-23	AX00814 MW-13S	Water	01/11/17 12:50	01/19/17 14:12
400-132839-24	AX00815 MW-13D	Water	01/11/17 14:33	01/19/17 14:12
400-132839-25	AX00816 MW-10	Water	01/11/17 16:05	01/19/17 14:12
400-132839-26	AX00847 MW-9S	Water	01/12/17 12:57	01/19/17 14:12
400-132839-27	AX00848 MW-11	Water	01/12/17 11:15	01/19/17 14:12
400-132839-28	AX00849 EB-1	Water	01/12/17 11:55	01/19/17 14:12
400-132839-29	AX00850 PZ-5	Water	01/12/17 12:52	01/19/17 14:12
400-132839-30	AX00851 PZ-5 DISS	Water	01/12/17 12:52	01/19/17 14:12

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00527 MW-15

Lab Sample ID: 400-132839-1

Date Collected: 01/09/17 12:55

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0396	U	0.164	0.164	1.00	0.309	pCi/L	01/25/17 11:04	02/18/17 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/25/17 11:04	02/18/17 14:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.108	U	0.295	0.295	1.00	0.555	pCi/L	01/25/17 11:49	02/15/17 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/25/17 11:49	02/15/17 17:54	1
Y Carrier	81.5		40 - 110					01/25/17 11:49	02/15/17 17:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0687	U	0.337	0.337	5.00	0.555	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00528 MW-16

Lab Sample ID: 400-132839-2

Date Collected: 01/09/17 14:10

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.190	U	0.164	0.165	1.00	0.246	pCi/L	01/25/17 11:04	02/18/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					01/25/17 11:04	02/18/17 14:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0723	U	0.349	0.349	1.00	0.641	pCi/L	01/25/17 11:49	02/15/17 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					01/25/17 11:49	02/15/17 17:55	1
Y Carrier	80.7		40 - 110					01/25/17 11:49	02/15/17 17:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.118	U	0.386	0.386	5.00	0.641	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00529 MW-16 DUP

Lab Sample ID: 400-132839-3

Date Collected: 01/09/17 14:10

Matrix: Water

Date Received: 01/19/17 14:12

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	0.176	0.177	1.00	0.294	pCi/L	01/25/17 11:04	02/18/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					01/25/17 11:04	02/18/17 14:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.307	U	0.382	0.383	1.00	0.634	pCi/L	01/25/17 11:49	02/15/17 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					01/25/17 11:49	02/15/17 17:55	1
Y Carrier	83.4		40 - 110					01/25/17 11:49	02/15/17 17:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.442	U	0.421	0.422	5.00	0.634	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00530 MW-14

Lab Sample ID: 400-132839-4

Date Collected: 01/09/17 15:30

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.131	0.131	1.00	0.209	pCi/L	01/25/17 11:04	02/18/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					01/25/17 11:04	02/18/17 14:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.122	U	0.302	0.303	1.00	0.575	pCi/L	01/25/17 11:49	02/15/17 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					01/25/17 11:49	02/15/17 17:55	1
Y Carrier	81.1		40 - 110					01/25/17 11:49	02/15/17 17:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00596	U	0.330	0.330	5.00	0.575	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00531 MW-3D

Lab Sample ID: 400-132839-5

Date Collected: 01/09/17 13:25

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0225	U	0.130	0.130	1.00	0.259	pCi/L	01/25/17 11:04	02/18/17 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		40 - 110					01/25/17 11:04	02/18/17 14:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.721		0.418	0.424	1.00	0.624	pCi/L	01/25/17 11:49	02/15/17 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		40 - 110					01/25/17 11:49	02/15/17 17:56	1
Y Carrier	80.7		40 - 110					01/25/17 11:49	02/15/17 17:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.744		0.438	0.443	5.00	0.624	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00532 MW-3S

Lab Sample ID: 400-132839-6

Date Collected: 01/09/17 14:30

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119	U	0.166	0.166	1.00	0.281	pCi/L	01/25/17 11:04	02/18/17 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110					01/25/17 11:04	02/18/17 14:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.169	U	0.405	0.405	1.00	0.696	pCi/L	01/25/17 11:49	02/15/17 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110					01/25/17 11:49	02/15/17 17:56	1
Y Carrier	80.4		40 - 110					01/25/17 11:49	02/15/17 17:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.288	U	0.437	0.438	5.00	0.696	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00533 MW-4

Lab Sample ID: 400-132839-7

Date Collected: 01/09/17 15:35

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194	U	0.156	0.157	1.00	0.223	pCi/L	01/25/17 11:04	02/18/17 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					01/25/17 11:04	02/18/17 14:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.346	U	0.362	0.364	1.00	0.590	pCi/L	01/25/17 11:49	02/15/17 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					01/25/17 11:49	02/15/17 17:56	1
Y Carrier	81.9		40 - 110					01/25/17 11:49	02/15/17 17:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.540	U	0.394	0.396	5.00	0.590	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00534 MW-6

Lab Sample ID: 400-132839-8

Date Collected: 01/09/17 16:30

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0894	U	0.137	0.138	1.00	0.237	pCi/L	01/25/17 11:04	02/18/17 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					01/25/17 11:04	02/18/17 14:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0249	U	0.303	0.303	1.00	0.547	pCi/L	01/25/17 11:49	02/15/17 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					01/25/17 11:49	02/15/17 17:56	1
Y Carrier	83.7		40 - 110					01/25/17 11:49	02/15/17 17:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.114	U	0.333	0.333	5.00	0.547	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00535 MW-6 DUP

Lab Sample ID: 400-132839-9

Date Collected: 01/09/17 16:30

Matrix: Water

Date Received: 01/19/17 14:12

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	0.163	0.163	1.00	0.266	pCi/L	01/25/17 11:04	02/18/17 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/25/17 11:04	02/18/17 14:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.449	U	0.447	0.449	1.00	0.727	pCi/L	01/25/17 11:49	02/15/17 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/25/17 11:49	02/15/17 17:56	1
Y Carrier	95.3		40 - 110					01/25/17 11:49	02/15/17 17:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.585	U	0.476	0.478	5.00	0.727	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00536 FB-1

Lab Sample ID: 400-132839-10

Date Collected: 01/09/17 16:50

Matrix: Water

Date Received: 01/19/17 14:12

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	0.172	0.173	1.00	0.266	pCi/L	01/25/17 11:04	02/18/17 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		40 - 110					01/25/17 11:04	02/18/17 14:36	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	0.355	0.355	1.00	0.670	pCi/L	01/25/17 11:49	02/15/17 17:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		40 - 110					01/25/17 11:49	02/15/17 17:58	1
Y Carrier	85.6		40 - 110					01/25/17 11:49	02/15/17 17:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00738	U	0.394	0.395	5.00	0.670	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00653 MW-9D

Lab Sample ID: 400-132839-11

Date Collected: 01/10/17 10:53

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.321		0.183	0.185	1.00	0.234	pCi/L	01/26/17 11:02	02/21/17 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					01/26/17 11:02	02/21/17 12:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.425	U	0.341	0.344	1.00	0.541	pCi/L	01/26/17 12:03	02/17/17 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					01/26/17 12:03	02/17/17 16:57	1
Y Carrier	87.5		40 - 110					01/26/17 12:03	02/17/17 16:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.747		0.387	0.390	5.00	0.541	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00654 MW-9D DUP

Lab Sample ID: 400-132839-12

Date Collected: 01/10/17 10:53

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00930	U	0.0972	0.0972	1.00	0.201	pCi/L	01/26/17 11:02	02/21/17 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/26/17 11:02	02/21/17 12:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0548	U	0.274	0.274	1.00	0.506	pCi/L	01/26/17 12:03	02/17/17 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/26/17 12:03	02/17/17 16:57	1
Y Carrier	89.3		40 - 110					01/26/17 12:03	02/17/17 16:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0455	U	0.291	0.291	5.00	0.506	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00655 MW-8S

Lab Sample ID: 400-132839-13

Date Collected: 01/10/17 13:13

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0380	U	0.130	0.130	1.00	0.251	pCi/L	01/26/17 11:02	02/21/17 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					01/26/17 11:02	02/21/17 12:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.253	U	0.364	0.365	1.00	0.610	pCi/L	01/26/17 12:03	02/17/17 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					01/26/17 12:03	02/17/17 16:57	1
Y Carrier	75.5		40 - 110					01/26/17 12:03	02/17/17 16:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.291	U	0.387	0.387	5.00	0.610	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00656 MW-8D

Lab Sample ID: 400-132839-14

Date Collected: 01/10/17 13:58

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0565	U	0.142	0.142	1.00	0.262	pCi/L	01/26/17 11:02	02/21/17 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					01/26/17 11:02	02/21/17 12:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0489	U	0.316	0.317	1.00	0.578	pCi/L	01/26/17 12:03	02/17/17 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					01/26/17 12:03	02/17/17 16:57	1
Y Carrier	85.6		40 - 110					01/26/17 12:03	02/17/17 16:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00760	U	0.347	0.347	5.00	0.578	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00657 FB-3

Lab Sample ID: 400-132839-15

Date Collected: 01/10/17 14:06

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0257	U	0.130	0.130	1.00	0.249	pCi/L	01/26/17 11:02	02/21/17 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					01/26/17 11:02	02/21/17 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.578		0.355	0.359	1.00	0.542	pCi/L	01/26/17 12:03	02/17/17 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					01/26/17 12:03	02/17/17 16:58	1
Y Carrier	81.5		40 - 110					01/26/17 12:03	02/17/17 16:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.604		0.378	0.382	5.00	0.542	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00659 MW-7S

Lab Sample ID: 400-132839-16

Date Collected: 01/10/17 09:47

Matrix: Water

Date Received: 01/19/17 14:12

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	0.173	0.173	1.00	0.292	pCi/L	01/26/17 11:02	02/21/17 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.0		40 - 110					01/26/17 11:02	02/21/17 13:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0820	U	0.354	0.354	1.00	0.625	pCi/L	01/26/17 12:03	02/17/17 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.0		40 - 110					01/26/17 12:03	02/17/17 16:58	1
Y Carrier	86.4		40 - 110					01/26/17 12:03	02/17/17 16:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.207	U	0.394	0.394	5.00	0.625	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00660 MW-7D

Lab Sample ID: 400-132839-17

Date Collected: 01/10/17 10:52

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0544	U	0.158	0.158	1.00	0.292	pCi/L	01/26/17 11:02	02/21/17 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					01/26/17 11:02	02/21/17 13:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.372	U	0.316	0.318	1.00	0.501	pCi/L	01/26/17 12:03	02/17/17 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					01/26/17 12:03	02/17/17 16:58	1
Y Carrier	85.6		40 - 110					01/26/17 12:03	02/17/17 16:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.427	U	0.353	0.355	5.00	0.501	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00662 MW-5

Lab Sample ID: 400-132839-18

Date Collected: 01/10/17 15:07

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0595	U	0.122	0.123	1.00	0.221	pCi/L	01/26/17 11:02	02/21/17 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					01/26/17 11:02	02/21/17 14:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.628		0.365	0.369	1.00	0.553	pCi/L	01/26/17 12:03	02/17/17 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					01/26/17 12:03	02/17/17 16:58	1
Y Carrier	84.1		40 - 110					01/26/17 12:03	02/17/17 16:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.687		0.385	0.389	5.00	0.553	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00663 FB-2

Lab Sample ID: 400-132839-19

Date Collected: 01/10/17 15:18

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176	U	0.138	0.139	1.00	0.197	pCi/L	01/26/17 11:02	02/21/17 14:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					01/26/17 11:02	02/21/17 14:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.254	U	0.328	0.329	1.00	0.546	pCi/L	01/26/17 12:03	02/17/17 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					01/26/17 12:03	02/17/17 16:58	1
Y Carrier	80.0		40 - 110					01/26/17 12:03	02/17/17 16:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.430	U	0.356	0.357	5.00	0.546	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00811 MW-1

Lab Sample ID: 400-132839-20

Date Collected: 01/11/17 12:53

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.291		0.156	0.158	1.00	0.187	pCi/L	01/26/17 11:02	02/21/17 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					01/26/17 11:02	02/21/17 14:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.184	U	0.393	0.393	1.00	0.669	pCi/L	01/26/17 12:03	02/17/17 16:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					01/26/17 12:03	02/17/17 16:58	1
Y Carrier	82.2		40 - 110					01/26/17 12:03	02/17/17 16:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.475	U	0.422	0.424	5.00	0.669	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00812 MW-2

Lab Sample ID: 400-132839-21

Date Collected: 01/11/17 15:10

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.305		0.189	0.191	1.00	0.247	pCi/L	01/26/17 11:02	02/21/17 14:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					01/26/17 11:02	02/21/17 14:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.539	U	0.367	0.370	1.00	0.568	pCi/L	01/26/17 12:03	02/17/17 16:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					01/26/17 12:03	02/17/17 16:55	1
Y Carrier	87.5		40 - 110					01/26/17 12:03	02/17/17 16:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.844		0.413	0.417	5.00	0.568	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00813 MW-12

Lab Sample ID: 400-132839-22

Date Collected: 01/11/17 11:30

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00505	U	0.127	0.127	1.00	0.257	pCi/L	01/26/17 11:02	02/21/17 14:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/26/17 11:02	02/21/17 14:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.619	U	0.420	0.424	1.00	0.655	pCi/L	01/26/17 12:03	02/17/17 16:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/26/17 12:03	02/17/17 16:55	1
Y Carrier	81.5		40 - 110					01/26/17 12:03	02/17/17 16:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.624	U	0.439	0.443	5.00	0.655	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00814 MW-13S

Lab Sample ID: 400-132839-23

Date Collected: 01/11/17 12:50

Matrix: Water

Date Received: 01/19/17 14:12

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	U	0.148	0.148	1.00	0.252	pCi/L	01/26/17 11:02	02/21/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					01/26/17 11:02	02/21/17 14:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0698	U	0.294	0.294	1.00	0.517	pCi/L	01/26/17 12:03	02/17/17 16:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					01/26/17 12:03	02/17/17 16:56	1
Y Carrier	83.4		40 - 110					01/26/17 12:03	02/17/17 16:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.172	U	0.329	0.329	5.00	0.517	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00815 MW-13D

Lab Sample ID: 400-132839-24

Date Collected: 01/11/17 14:33

Matrix: Water

Date Received: 01/19/17 14:12

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	0.142	0.142	1.00	0.229	pCi/L	01/26/17 11:02	02/21/17 16:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					01/26/17 11:02	02/21/17 16:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.199	U	0.345	0.345	1.00	0.583	pCi/L	01/26/17 12:03	02/17/17 16:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					01/26/17 12:03	02/17/17 16:56	1
Y Carrier	83.7		40 - 110					01/26/17 12:03	02/17/17 16:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.324	U	0.373	0.373	5.00	0.583	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00816 MW-10

Lab Sample ID: 400-132839-25

Date Collected: 01/11/17 16:05

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.237		0.152	0.153	1.00	0.198	pCi/L	01/26/17 11:02	02/21/17 16:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/26/17 11:02	02/21/17 16:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.431	U	0.339	0.341	1.00	0.534	pCi/L	01/26/17 12:03	02/17/17 16:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					01/26/17 12:03	02/17/17 16:56	1
Y Carrier	88.2		40 - 110					01/26/17 12:03	02/17/17 16:56	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.668		0.371	0.374	5.00	0.534	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00847 MW-9S

Lab Sample ID: 400-132839-26

Date Collected: 01/12/17 12:57

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.442		0.211	0.215	1.00	0.244	pCi/L	01/26/17 11:02	02/21/17 16:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					01/26/17 11:02	02/21/17 16:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.216	U	0.494	0.495	1.00	0.841	pCi/L	01/26/17 12:03	02/17/17 16:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					01/26/17 12:03	02/17/17 16:50	1
Y Carrier	77.8		40 - 110					01/26/17 12:03	02/17/17 16:50	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	0.658	U	0.538	0.540	5.00	0.841	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00848 MW-11

Lab Sample ID: 400-132839-27

Date Collected: 01/12/17 11:15

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.192	U	0.176	0.177	1.00	0.271	pCi/L	01/26/17 11:02	02/21/17 16:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					01/26/17 11:02	02/21/17 16:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.116	U	0.426	0.426	1.00	0.736	pCi/L	01/26/17 12:03	02/17/17 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					01/26/17 12:03	02/17/17 16:51	1
Y Carrier	82.2		40 - 110					01/26/17 12:03	02/17/17 16:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.308	U	0.461	0.461	5.00	0.736	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00849 EB-1

Lab Sample ID: 400-132839-28

Date Collected: 01/12/17 11:55

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0626	U	0.106	0.106	1.00	0.187	pCi/L	01/26/17 11:02	02/21/17 16:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					01/26/17 11:02	02/21/17 16:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0722	U	0.359	0.359	1.00	0.647	pCi/L	01/26/17 12:03	02/17/17 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					01/26/17 12:03	02/17/17 16:51	1
Y Carrier	84.1		40 - 110					01/26/17 12:03	02/17/17 16:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00957	U	0.374	0.374	5.00	0.647	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00850 PZ-5

Lab Sample ID: 400-132839-29

Date Collected: 01/12/17 12:52

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174	U	0.163	0.164	1.00	0.252	pCi/L	01/26/17 11:02	02/21/17 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					01/26/17 11:02	02/21/17 17:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.258	U	0.335	0.335	1.00	0.556	pCi/L	01/26/17 12:03	02/17/17 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					01/26/17 12:03	02/17/17 16:51	1
Y Carrier	85.2		40 - 110					01/26/17 12:03	02/17/17 16:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.432	U	0.372	0.373	5.00	0.556	pCi/L		02/22/17 13:17	1

Client Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00851 PZ-5 DISS

Lab Sample ID: 400-132839-30

Date Collected: 01/12/17 12:52

Matrix: Water

Date Received: 01/19/17 14:12

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155	U	0.177	0.178	1.00	0.288	pCi/L	01/26/17 11:02	02/21/17 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					01/26/17 11:02	02/21/17 17:25	1

Method: 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.617		0.381	0.385	1.00	0.583	pCi/L	01/26/17 12:03	02/17/17 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					01/26/17 12:03	02/17/17 16:51	1
Y Carrier	85.6		40 - 110					01/26/17 12:03	02/17/17 16:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.772		0.420	0.424	5.00	0.583	pCi/L		02/22/17 15:38	1

Definitions/Glossary

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00527 MW-15

Lab Sample ID: 400-132839-1

Date Collected: 01/09/17 12:55

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293146	02/18/17 14:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:54	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00528 MW-16

Lab Sample ID: 400-132839-2

Date Collected: 01/09/17 14:10

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00529 MW-16 DUP

Lab Sample ID: 400-132839-3

Date Collected: 01/09/17 14:10

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00530 MW-14

Lab Sample ID: 400-132839-4

Date Collected: 01/09/17 15:30

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Client Sample ID: AX00531 MW-3D

Lab Sample ID: 400-132839-5

Date Collected: 01/09/17 13:25

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00532 MW-3S

Lab Sample ID: 400-132839-6

Date Collected: 01/09/17 14:30

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00533 MW-4

Lab Sample ID: 400-132839-7

Date Collected: 01/09/17 15:35

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00534 MW-6

Lab Sample ID: 400-132839-8

Date Collected: 01/09/17 16:30

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Client Sample ID: AX00535 MW-6 DUP

Lab Sample ID: 400-132839-9

Date Collected: 01/09/17 16:30

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292648	02/15/17 17:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00536 FB-1

Lab Sample ID: 400-132839-10

Date Collected: 01/09/17 16:50

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289147	01/25/17 11:04	MBC	TAL SL
Total/NA	Analysis	9315		1	293143	02/18/17 14:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289149	01/25/17 11:49	MBC	TAL SL
Total/NA	Analysis	9320		1	292784	02/15/17 17:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00653 MW-9D

Lab Sample ID: 400-132839-11

Date Collected: 01/10/17 10:53

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293678	02/21/17 12:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:57	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00654 MW-9D DUP

Lab Sample ID: 400-132839-12

Date Collected: 01/10/17 10:53

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293678	02/21/17 12:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:57	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00655 MW-8S

Lab Sample ID: 400-132839-13

Date Collected: 01/10/17 13:13

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 12:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:57	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00656 MW-8D

Lab Sample ID: 400-132839-14

Date Collected: 01/10/17 13:58

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 12:43	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:57	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00657 FB-3

Lab Sample ID: 400-132839-15

Date Collected: 01/10/17 14:06

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 12:46	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00659 MW-7S

Lab Sample ID: 400-132839-16

Date Collected: 01/10/17 09:47

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 13:33	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Client Sample ID: AX00660 MW-7D

Lab Sample ID: 400-132839-17

Date Collected: 01/10/17 10:52

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 13:33	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00662 MW-5

Lab Sample ID: 400-132839-18

Date Collected: 01/10/17 15:07

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293678	02/21/17 14:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00663 FB-2

Lab Sample ID: 400-132839-19

Date Collected: 01/10/17 15:18

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293678	02/21/17 14:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00811 MW-1

Lab Sample ID: 400-132839-20

Date Collected: 01/11/17 12:53

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293668	02/21/17 14:23	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293145	02/17/17 16:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Client Sample ID: AX00812 MW-2

Lab Sample ID: 400-132839-21

Date Collected: 01/11/17 15:10

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 14:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293055	02/17/17 16:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00813 MW-12

Lab Sample ID: 400-132839-22

Date Collected: 01/11/17 11:30

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 14:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293055	02/17/17 16:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00814 MW-13S

Lab Sample ID: 400-132839-23

Date Collected: 01/11/17 12:50

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 14:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293055	02/17/17 16:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00815 MW-13D

Lab Sample ID: 400-132839-24

Date Collected: 01/11/17 14:33

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293678	02/21/17 16:16	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293055	02/17/17 16:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Client Sample ID: AX00816 MW-10

Lab Sample ID: 400-132839-25

Date Collected: 01/11/17 16:05

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293678	02/21/17 16:16	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293055	02/17/17 16:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00847 MW-9S

Lab Sample ID: 400-132839-26

Date Collected: 01/12/17 12:57

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 16:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293073	02/17/17 16:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00848 MW-11

Lab Sample ID: 400-132839-27

Date Collected: 01/12/17 11:15

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 16:14	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293073	02/17/17 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00849 EB-1

Lab Sample ID: 400-132839-28

Date Collected: 01/12/17 11:55

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293668	02/21/17 16:17	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293073	02/17/17 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Client Sample ID: AX00850 PZ-5

Lab Sample ID: 400-132839-29

Date Collected: 01/12/17 12:52

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Total/NA	Analysis	9315		1	293679	02/21/17 17:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Total/NA	Analysis	9320		1	293073	02/17/17 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293959	02/22/17 13:17	RTM	TAL SL

Client Sample ID: AX00851 PZ-5 DISS

Lab Sample ID: 400-132839-30

Date Collected: 01/12/17 12:52

Matrix: Water

Date Received: 01/19/17 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			289244	01/26/17 11:02	BME	TAL SL
Dissolved	Analysis	9315		1	293679	02/21/17 17:25	RTM	TAL SL
Dissolved	Prep	PrecSep_0			289253	01/26/17 12:03	BME	TAL SL
Dissolved	Analysis	9320		1	293073	02/17/17 16:51	RTM	TAL SL
Dissolved	Analysis	Ra226_Ra228		1	294075	02/22/17 15:38	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 Miller

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Rad

Prep Batch: 289147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132839-1	AX00527 MW-15	Total/NA	Water	PrecSep-21	
400-132839-2	AX00528 MW-16	Total/NA	Water	PrecSep-21	
400-132839-3	AX00529 MW-16 DUP	Total/NA	Water	PrecSep-21	
400-132839-4	AX00530 MW-14	Total/NA	Water	PrecSep-21	
400-132839-5	AX00531 MW-3D	Total/NA	Water	PrecSep-21	
400-132839-6	AX00532 MW-3S	Total/NA	Water	PrecSep-21	
400-132839-7	AX00533 MW-4	Total/NA	Water	PrecSep-21	
400-132839-8	AX00534 MW-6	Total/NA	Water	PrecSep-21	
400-132839-9	AX00535 MW-6 DUP	Total/NA	Water	PrecSep-21	
400-132839-10	AX00536 FB-1	Total/NA	Water	PrecSep-21	
MB 160-289147/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-289147/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-289147/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 289149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132839-1	AX00527 MW-15	Total/NA	Water	PrecSep_0	
400-132839-2	AX00528 MW-16	Total/NA	Water	PrecSep_0	
400-132839-3	AX00529 MW-16 DUP	Total/NA	Water	PrecSep_0	
400-132839-4	AX00530 MW-14	Total/NA	Water	PrecSep_0	
400-132839-5	AX00531 MW-3D	Total/NA	Water	PrecSep_0	
400-132839-6	AX00532 MW-3S	Total/NA	Water	PrecSep_0	
400-132839-7	AX00533 MW-4	Total/NA	Water	PrecSep_0	
400-132839-8	AX00534 MW-6	Total/NA	Water	PrecSep_0	
400-132839-9	AX00535 MW-6 DUP	Total/NA	Water	PrecSep_0	
400-132839-10	AX00536 FB-1	Total/NA	Water	PrecSep_0	
MB 160-289149/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-289149/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-289149/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 289244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132839-11	AX00653 MW-9D	Total/NA	Water	PrecSep-21	
400-132839-12	AX00654 MW-9D DUP	Total/NA	Water	PrecSep-21	
400-132839-13	AX00655 MW-8S	Total/NA	Water	PrecSep-21	
400-132839-14	AX00656 MW-8D	Total/NA	Water	PrecSep-21	
400-132839-15	AX00657 FB-3	Total/NA	Water	PrecSep-21	
400-132839-16	AX00659 MW-7S	Total/NA	Water	PrecSep-21	
400-132839-17	AX00660 MW-7D	Total/NA	Water	PrecSep-21	
400-132839-18	AX00662 MW-5	Total/NA	Water	PrecSep-21	
400-132839-19	AX00663 FB-2	Total/NA	Water	PrecSep-21	
400-132839-20	AX00811 MW-1	Total/NA	Water	PrecSep-21	
400-132839-21	AX00812 MW-2	Total/NA	Water	PrecSep-21	
400-132839-22	AX00813 MW-12	Total/NA	Water	PrecSep-21	
400-132839-23	AX00814 MW-13S	Total/NA	Water	PrecSep-21	
400-132839-24	AX00815 MW-13D	Total/NA	Water	PrecSep-21	
400-132839-25	AX00816 MW-10	Total/NA	Water	PrecSep-21	
400-132839-26	AX00847 MW-9S	Total/NA	Water	PrecSep-21	
400-132839-27	AX00848 MW-11	Total/NA	Water	PrecSep-21	
400-132839-28	AX00849 EB-1	Total/NA	Water	PrecSep-21	
400-132839-29	AX00850 PZ-5	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Rad (Continued)

Prep Batch: 289244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132839-30	AX00851 PZ-5 DISS	Dissolved	Water	PrecSep-21	
MB 160-289244/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-289244/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-132839-23 DU	AX00814 MW-13S	Total/NA	Water	PrecSep-21	
400-132839-26 DU	AX00847 MW-9S	Total/NA	Water	PrecSep-21	

Prep Batch: 289253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132839-11	AX00653 MW-9D	Total/NA	Water	PrecSep_0	
400-132839-12	AX00654 MW-9D DUP	Total/NA	Water	PrecSep_0	
400-132839-13	AX00655 MW-8S	Total/NA	Water	PrecSep_0	
400-132839-14	AX00656 MW-8D	Total/NA	Water	PrecSep_0	
400-132839-15	AX00657 FB-3	Total/NA	Water	PrecSep_0	
400-132839-16	AX00659 MW-7S	Total/NA	Water	PrecSep_0	
400-132839-17	AX00660 MW-7D	Total/NA	Water	PrecSep_0	
400-132839-18	AX00662 MW-5	Total/NA	Water	PrecSep_0	
400-132839-19	AX00663 FB-2	Total/NA	Water	PrecSep_0	
400-132839-20	AX00811 MW-1	Total/NA	Water	PrecSep_0	
400-132839-21	AX00812 MW-2	Total/NA	Water	PrecSep_0	
400-132839-22	AX00813 MW-12	Total/NA	Water	PrecSep_0	
400-132839-23	AX00814 MW-13S	Total/NA	Water	PrecSep_0	
400-132839-24	AX00815 MW-13D	Total/NA	Water	PrecSep_0	
400-132839-25	AX00816 MW-10	Total/NA	Water	PrecSep_0	
400-132839-26	AX00847 MW-9S	Total/NA	Water	PrecSep_0	
400-132839-27	AX00848 MW-11	Total/NA	Water	PrecSep_0	
400-132839-28	AX00849 EB-1	Total/NA	Water	PrecSep_0	
400-132839-29	AX00850 PZ-5	Total/NA	Water	PrecSep_0	
400-132839-30	AX00851 PZ-5 DISS	Dissolved	Water	PrecSep_0	
MB 160-289253/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-289253/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-132839-23 DU	AX00814 MW-13S	Total/NA	Water	PrecSep_0	
400-132839-26 DU	AX00847 MW-9S	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-289147/1-A
Matrix: Water
Analysis Batch: 293146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289147

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02669	U	0.0970	0.0970	1.00	0.188	pCi/L	01/25/17 11:04	02/18/17 12:36	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						
	83.5					01/25/17 11:04	02/18/17 12:36	1		

Lab Sample ID: LCS 160-289147/2-A
Matrix: Water
Analysis Batch: 293146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289147

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	6.01	7.783		0.957	1.00	0.234	pCi/L	130	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		40 - 110					
	82.9								

Lab Sample ID: LCSD 160-289147/3-A
Matrix: Water
Analysis Batch: 293146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 289147

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	6.01	7.294		0.905	1.00	0.178	pCi/L	121	68 - 137	0.26	1
Carrier	LCSD LCSD		Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier		40 - 110							
	84.7										

Lab Sample ID: MB 160-289244/1-A
Matrix: Water
Analysis Batch: 293668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289244

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08395	U	0.110	0.110	1.00	0.182	pCi/L	01/26/17 11:02	02/21/17 10:08	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						
	93.5					01/26/17 11:02	02/21/17 10:08	1		

Lab Sample ID: LCS 160-289244/2-A
Matrix: Water
Analysis Batch: 293668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289244

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	8.01	7.801		0.967	1.00	0.182	pCi/L	97	68 - 137

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-289244/2-A
Matrix: Water
Analysis Batch: 293668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289244

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.1		40 - 110

Lab Sample ID: 400-132839-23 DU
Matrix: Water
Analysis Batch: 293679

Client Sample ID: AX00814 MW-13S
Prep Type: Total/NA
Prep Batch: 289244

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.102	U	0.1484	U	0.170	1.00	0.276	pCi/L	0.14	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.6		40 - 110

Lab Sample ID: 400-132839-26 DU
Matrix: Water
Analysis Batch: 293679

Client Sample ID: AX00847 MW-9S
Prep Type: Total/NA
Prep Batch: 289244

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.442		0.1215	U	0.154	1.00	0.254	pCi/L	0.87	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.7		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-289149/1-A
Matrix: Water
Analysis Batch: 292630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289149

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3809	U	0.297	0.299	1.00	0.470	pCi/L	01/25/17 11:49	02/15/17 17:46	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier				
Ba Carrier	83.5		40 - 110	01/25/17 11:49	02/15/17 17:46	1
Y Carrier	81.1		40 - 110	01/25/17 11:49	02/15/17 17:46	1

Lab Sample ID: LCS 160-289149/2-A
Matrix: Water
Analysis Batch: 292648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289149

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.8	15.74		1.71	1.00	0.461	pCi/L	114	56 - 140

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-289149/2-A
Matrix: Water
Analysis Batch: 292648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289149

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.9		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: LCSD 160-289149/3-A
Matrix: Water
Analysis Batch: 292648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 289149

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	13.8	14.19		1.58	1.00	0.464	pCi/L	103	56 - 140	0.47	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	84.7		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: MB 160-289253/1-A
Matrix: Water
Analysis Batch: 293145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289253

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2121	U	0.269	0.270	1.00	0.446	pCi/L	01/26/17 12:03	02/17/17 16:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110	01/26/17 12:03	02/17/17 16:57	1
Y Carrier	89.0		40 - 110	01/26/17 12:03	02/17/17 16:57	1

Lab Sample ID: LCS 160-289253/2-A
Matrix: Water
Analysis Batch: 293145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289253

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	18.4	17.71		1.94	1.00	0.514	pCi/L	96	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.1		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 400-132839-23 DU
Matrix: Water
Analysis Batch: 293055

Client Sample ID: AX00814 MW-13S
Prep Type: Total/NA
Prep Batch: 289253

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.0698	U	0.3337	U	0.338	1.00	0.547	pCi/L	0.42	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-132839-23 DU
Matrix: Water
Analysis Batch: 293055

Client Sample ID: AX00814 MW-13S
Prep Type: Total/NA
Prep Batch: 289253

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.6		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 400-132839-26 DU
Matrix: Water
Analysis Batch: 293073

Client Sample ID: AX00847 MW-9S
Prep Type: Total/NA
Prep Batch: 289253

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.216	U	0.4583	U	0.407	1.00	0.651	pCi/L	0.27	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.7		40 - 110
Y Carrier	84.1		40 - 110

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-132839-23 DU
Matrix: Water
Analysis Batch: 293959

Client Sample ID: AX00814 MW-13S
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	0.172	U	0.4821	U	0.378	5.00	0.547	pCi/L	0.44	

Lab Sample ID: 400-132839-26 DU
Matrix: Water
Analysis Batch: 293959

Client Sample ID: AX00847 MW-9S
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	0.658	U	0.5797	U	0.435	5.00	0.651	pCi/L	0.08	

Chain of Custody Record

Client Information		Lab PM: Whitmire, Chelyenne R		Carrier Tracking No(s): 400-56525-24537.1	
Client Contact: Sarah Copeland		E-Mail: chelyenne.whitmire@testamericainc.com		Page: 1 of 3	
Company: Alabama Power General Test Laboratory		Address: 744 County Rd 87, GSC #8		Job #: 400-132839	
City: Calera		State, Zip: AL, 35040		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: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Due Date Requested:		TAI Requested (days):		Analysis Requested	
PO #:		WO #:		Total Number of Containers	
Project #: 40007143		Project Name: sgcopela@southernco.com		Special Instructions/Note:	
Site: Miller Ash Pond (4)		SSOW#:		MW-15	
		Matrix (W=water, S=solid, O=on-site, B=field, A=Air)		MW-16	
Sample Identification		Sample Date		Sample Time	
Sample ID		Sample Type (C=comp, G=grab)		Sample Preservation Code	
AX00527	Water	G	1/9/17	1255	X
AX00528	Water	G	1/9/17	1410	X
AX00529	Water	G	1/9/17	1410	X
AX00530	Water	G	1/9/17	1530	X
AX00531	Water	G	1/9/17	1325	X
AX00532	Water	G	1/9/17	1430	X
AX00533	Water	G	1/9/17	1535	X
AX00534	Water	G	1/9/17	1630	X
AX00535	Water	G	1/9/17	1630	X
AX00536	Water	G	1/9/17	1650	X
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		Date: 1/9/2017 08:15		Company: APC	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 1/9/2017 14:12		Company: TA	
Empty Kit Relinquished by:		Date: 1/9/2017 14:12		Company: TA	
Relinquished by: Sarah Copeland		Date: 1/9/2017 14:12		Company: TA	
Relinquished by:		Date: 1/9/2017 14:12		Company: TA	
Relinquished by:		Date: 1/9/2017 14:12		Company: TA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM: Whitmore, Cheyenne R		Carrier Tracking No(s):	
Client Contact: Sarah Copeland		E-Mail: cheyenne.whitmore@testamericainc.com		COC No: 400-56525-24537.1	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Page: Page 2 of 3	
Address: 744 County Rd 87 GSC #8		TAT Requested (days): Routine		Job #: 400-132839	
City: Calera		PO #:		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:	
State, Zip: AL, 35040		WO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Phone: 205-664-6121(Tel)		Project #: 40007143		Total Number of Containers	
Email: sgcopela@southernco.com		SSOW#:			
Site: Miller Ash Pond (4)					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	9315 Ra226, 9320 Ra228, Ra226Ra228_GFP	Analysis Requested	Special Instructions/Note:
AX00653	1/10/17	1053	G	Water	X	X			MW-9D
AX00654	1/10/17	1053	G	Water	X	X			MW-9D Dup (Sample Duplicate)
AX00655	1/10/17	1313	G	Water	X	X			MW-8S
AX00656	1/10/17	1358	G	Water	X	X			MW-8D
AX00657	1/10/17	1406	G	Water	X	X			FB-3 (Field Blank)
AX00659	1/10/17	0947	G	Water	X	X			MW-7S
AX00660	1/10/17	1052	G	Water	X	X			MW-7D
AX00662	1/10/17	1507	G	Water	X	X			MW-5
AX00663	1/10/17	1518	G	Water	X	X			FB-2 (Field Blank)

Possible Hazard Identification
 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:

Received by:	Date/Time:	Company:
	1/19/2017 14:12	APC
Received by:	Date/Time:	Company:
		Company
Received by:	Date/Time:	Company:
		Company

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

Client Information		Sample: Anthony Goggins/Jason Rouss/Ben Rothschild Lab PM: Whitmire, Cheyenne R. Client Contact: Sarah Copeland E-Mail: cheyenne.whitmire@testamericainc.com Phone:		Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 3 of 3 Job #: 400-172839							
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 SOW#: Miller Ash Pond (4)		Analysis Requested		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify) Other:		Special Instructions/Note: Total Number of Containers:					
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 40007143 SOW#:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> D Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> D 9315_Ra226, 9320_Ra229, Ra226Ra228_GFPc		Total Number of Containers:		Special Instructions/Note: MW-1 MW-2 MW-12 MW-13S MW-13D MW-10 MW-9S MW-11 EB-1 PZ-5 PZ-5 Diss (Dissolved)					
Sample Identification AX00811 AX00812 AX00813 AX00814 AX00815 AX00816 AX00847 AX00848 AX00849 AX00850 AX00851		Sample Date 1/11/17 1/11/17 1/11/17 1/11/17 1/11/17 1/12/17 1/12/17 1/12/17 1/12/17 1/12/17		Sample Time 1253 1510 1130 1250 1433 1605 1257 1115 1155 1252 1252		Sample Type (C=Comp, G=grab) G G G G G G G G G G G G G		Matrix (W=water, S=solid, O=waste/oi, BT=issue, A=air) Water Water Water Water Water Water Water Water Water Water Water Water Water		Preservation Code G G G G G G G G G G G G	
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		Empty Kit Relinquished by:		Date:		Method of Shipment:					
Relinquished by: Sarah Copeland Date/Time: 1/19/2017 0815 Company: APC		Relinquished by:		Date/Time:		Date/Time: 1/19/2017 14:12 Company: TA					
Relinquished by:		Date/Time:		Date/Time:		Date/Time:					
Relinquished by:		Date/Time:		Date/Time:		Date/Time:					
Custody Seals Intact: A Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Special Instructions/QC Requirements:					



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-132839-1
SDG Number: Miller Ash Pond (4)

Login Number: 132839

List Number: 1

Creator: Siddoway, Benjamin

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.9°C, 19.9°C IR-6
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	



Certification Summary

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

TestAmerica Job ID: 400-132839-1
 SDG: Miller Ash Pond (4)

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 400-132839-1
SDG: Miller Ash Pond (4)

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - 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

 Alabama Power



Sample Group : WMWMILAP_1076

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1076

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. Due to instrument issue, all anions were outsourced to Test America, Pensacola for analysis. Below is the narrative provided by Test America.

Job Narrative

400-134192-2

General Chemistry

Method(s) SM 4500 Cl- E: The following sample was diluted to bring the concentration of target analytes within the calibration range: AX03554 MW-3D (400-134192-3). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 345759 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 345760 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.

Comments

Samples AX03552 PZ-5 (400-134192-1), AX03553 EB-1 (400-134192-2), AX03554 MW-3D (400-134192-3), AX03555 MW-3S (400-134192-4), AX03556 MW-4 (400-134192-5), AX03557 MW-6 (400-134192-6), AX03558 MW-6 DUP (400-134192-7), AX03559 MW-11 (400-134192-8) and AX03560 MW-1 (400-134192-9) will be recollected for Sulfate.

4. The samples listed above under 'Comments', were analyzed for Sulfate out of hold time and were re-sampled.



Metals ICP

Miller Ash Pond

WMWMILAP_1076

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>
AX03552	20170330B & 20170404E	WMWMILAP_1076
AX03553	20170330B & 20170404E	WMWMILAP_1076
AX03554	20170330B & 20170404E	WMWMILAP_1076
AX03555	20170330B & 20170404E	WMWMILAP_1076
AX03556	20170330B & 20170404E	WMWMILAP_1076
AX03557	20170330B & 20170404E	WMWMILAP_1076
AX03558	20170330B & 20170404E	WMWMILAP_1076
AX03559	20170330B & 20170404E	WMWMILAP_1076
AX03560	20170330B & 20170404E	WMWMILAP_1076
AX03727	20170330B & 20170404E	WMWMILAP_1076
AX03728	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03729	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03730	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03731	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03732	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03733	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03734	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03735	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03736	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03737	20170330C, 20170404F & 20170411	WMWMILAP_1076
AX03738	20170330D & 20170404G	WMWMILAP_1076
AX03884	20170330D & 20170404G	WMWMILAP_1076
AX03885	20170330D & 20170404G	WMWMILAP_1076
AX03886	20170330D & 20170404G	WMWMILAP_1076
AX03887	20170330D & 20170404G	WMWMILAP_1076
AX03888	20170330D & 20170404G	WMWMILAP_1076
AX03889	20170330D & 20170404G	WMWMILAP_1076
AX03890	20170330D & 20170404G	WMWMILAP_1076
AX03892	20170330D & 20170404G	WMWMILAP_1076
AX03891	20170411A & 20170419	WMWMILAP_1076



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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met. ICV concentration for Li set to 0.2ppm.
- 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. CCV concentration for Li set to 0.2ppm. An additional Rinse and CCV was added between samples in batch 20170330C, 20170404F & 20170411 for post digestion and serial dilutions for monitoring Lithium due to possible matrix issues.
- 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 with the exception of batch 20170411A & 20170419, which is a dissolved sample and does not get digested.
- 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 read backs 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:

<u>Analyte</u>	<u>Sample ID</u>
Lithium	AX03737
Lithium	AX03892
Lithium	AX03891



The post dilution spike and serial dilutions performed on AX03737 confirm matrix effect on the sample. The dilution spike and serial dilutions performed on AX03892 & AX03891 confirm matrix effect on the sample. Passing LCS qualifies all sample batches.

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AX03892

The concentration of this analyte in the sample was greater than 3.3X the concentration of the matrix spike added during digestion, 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 dilution (except AX03891 which was run straight) due to possible matrix issues. The following samples were diluted due to analyzed concentrations over the high standard of the calibration curve.

Sample ID	Analyte	Dilution Factor
AX03554	Calcium	x10
AX03556	Calcium	x10
AX03557	Calcium	x10
AX03558	Calcium	x10
AX03560	Calcium	x10
AX03728	Calcium	x10
AX03730	Calcium	x10
AX03732	Calcium	x10
AX03733	Calcium	x10
AX03734	Calcium	x10
AX03735	Calcium	x10
AX03884	Calcium	x10

8. The raw data results include both results corrected for dilution and results not corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1076

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>
AX03552	587916	WMWMILAP_1076
AX03553	587916	WMWMILAP_1076
AX03554	587916	WMWMILAP_1076
AX03555	587916	WMWMILAP_1076
AX03556	587916	WMWMILAP_1076
AX03557	587916	WMWMILAP_1076
AX03558	587916	WMWMILAP_1076
AX03559	587916	WMWMILAP_1076
AX03560	587916	WMWMILAP_1076
AX03727	587916	WMWMILAP_1076
AX03728	587917	WMWMILAP_1076
AX03729	587917	WMWMILAP_1076
AX03730	587917	WMWMILAP_1076
AX03731	587917	WMWMILAP_1076
AX03732	587917	WMWMILAP_1076
AX03733	587917	WMWMILAP_1076
AX03734	587917	WMWMILAP_1076
AX03735	587917	WMWMILAP_1076
AX03736	587917	WMWMILAP_1076
AX03737	587917	WMWMILAP_1076
AX03738	587918	WMWMILAP_1076
AX03884	587918	WMWMILAP_1076
AX03885	587918	WMWMILAP_1076
AX03886	587918	WMWMILAP_1076
AX03887	587918	WMWMILAP_1076
AX03888	587918	WMWMILAP_1076
AX03889	587918	WMWMILAP_1076
AX03890	587918	WMWMILAP_1076
AX03892	587918	WMWMILAP_1076
AX03891	587749	WMWMILAP_1076



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. Technical Manager requested re-analysis of AX03891, Be only, for verification of 0.2 ppb standard. Results passed and were reported.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met, with the following exception: ICV for Cobalt failed. All samples were re-analyzed for Co and reported.
- Following the ICV, and 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, except batch 587749, which is a dissolved sample and does not get digested.
- 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

Miller Ash Pond

WMWMILAP_1076

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>
AX03552	587518	WMWMILAP_1076
AX03553	587518	WMWMILAP_1076
AX03554	587518	WMWMILAP_1076
AX03555	587518	WMWMILAP_1076
AX03556	587518	WMWMILAP_1076
AX03557	587518	WMWMILAP_1076
AX03558	587518	WMWMILAP_1076
AX03559	587518	WMWMILAP_1076
AX03560	587518	WMWMILAP_1076
AX03727	587518	WMWMILAP_1076
AX03728	587519	WMWMILAP_1076
AX03729	587519	WMWMILAP_1076
AX03730	587519	WMWMILAP_1076
AX03731	587519	WMWMILAP_1076
AX03732	587519	WMWMILAP_1076
AX03733	587519	WMWMILAP_1076
AX03734	587519	WMWMILAP_1076
AX03735	587519	WMWMILAP_1076
AX03736	587519	WMWMILAP_1076
AX03737	587519	WMWMILAP_1076
AX03738	587520	WMWMILAP_1076
AX03891	587709	WMWMILAP_1076
AX03884	587711	WMWMILAP_1076
AX03885	587711	WMWMILAP_1076
AX03886	587711	WMWMILAP_1076
AX03887	587711	WMWMILAP_1076
AX03888	587711	WMWMILAP_1076
AX03889	587711	WMWMILAP_1076
AX03890	587711	WMWMILAP_1076
AX03892	587711	WMWMILAP_1076

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 except for AX03884 and 3 of the CCBs. AX03884 had a dip in the response signal on the 1st run. It was rerun, and the second signal was good and reported. 3 of the CCBs had a dip in signal response, but they were not rerun because they were still less than the lowest standard even at the highest point of the run.

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

Miller Ash Pond

WMWMILAP_1076

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>
AX03552	587702	WMWMILAP_1076
AX03553	587702	WMWMILAP_1076
AX03554	587702	WMWMILAP_1076
AX03555	587702	WMWMILAP_1076
AX03556	587702	WMWMILAP_1076
AX03557	587702	WMWMILAP_1076
AX03558	587702	WMWMILAP_1076
AX03559	587702	WMWMILAP_1076
AX03560	587702	WMWMILAP_1076
AX03727	587702	WMWMILAP_1076
AX03728	587920	WMWMILAP_1076
AX03729	587920	WMWMILAP_1076
AX03730	587920	WMWMILAP_1076
AX03731	587920	WMWMILAP_1076
AX03732	587920	WMWMILAP_1076
AX03733	587920	WMWMILAP_1076
AX03734	587920	WMWMILAP_1076
AX03735	587920	WMWMILAP_1076
AX03736	587920	WMWMILAP_1076
AX03737	587920	WMWMILAP_1076
AX03738	587921	WMWMILAP_1076
AX03884	587921	WMWMILAP_1076
AX03885	587921	WMWMILAP_1076
AX03886	587921	WMWMILAP_1076
AX03887	587921	WMWMILAP_1076
AX03888	587921	WMWMILAP_1076
AX03889	587921	WMWMILAP_1076
AX03890	587921	WMWMILAP_1076
AX03892	587921	WMWMILAP_1076



4. All of the above samples were analyzed by SM 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 0.5 mg 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 2.5 mg and 200 mg residue, with the exception of AX03553, AX03731, AX03738, & AX03885, which were all less than 2.5 mg.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX03552

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	J 0.00166	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00443	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0612	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.473	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	54.0	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.243	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00784	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		100	832	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	33	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.88	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX03552

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX03552

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60			0.405	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, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX03553

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	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, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX03553

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	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, 2017

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
 John Pugh

Customer Account: WMWMILAPEB
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX03553

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60			0.405	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX03554

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	0.0122	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0259	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.567	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.00	5.0	268	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	J 0.00873	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.167	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0235	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		125	1380	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		2	1.20	4.00	56	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.29	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX03554

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX03554

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60	0.405	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

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX03555

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00179	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.101	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.187	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	4.38	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.244	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0295	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		50	584	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	28	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.27	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX03555

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX03555

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60	0.405	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX03556

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0145	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.565	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	291	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	J 0.000310	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	0.0368	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.136	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00291	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		100	1460	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	46	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.28	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX03556

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX03556

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60		0.405 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

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX03557

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0286	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.869	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	141	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	0.0650	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.101	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00615	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		50	896	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	28	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX03557

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX03557

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60		0.405 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

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX03558

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0285	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.859	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	141	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	0.0646	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.101	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00608	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		50	900	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	29	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	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.

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX03558

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX03558

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec
				Limit				Duplicate	LFB	Limit	Prec
AX03727	Solids, Dissolved	mg/L	10.0	25				248	53.0	40 to 60	0.405
											5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX03559

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0329	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	J 0.0263	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	166	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	J 0.00227	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.149	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		100	1130	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	9.1	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX03559

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX03559

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec
				Limit				Duplicate	LFB	Limit	Prec
AX03727	Solids, Dissolved	mg/L	10.0	25				248	53.0	40 to 60	0.405
											5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX03560

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00240	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0946	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	J 0.0561	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	132	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00610	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.187	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00994	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		100	848	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX03560

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046		96.2	70 to 130	0.688	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115		106	70 to 130	1.73	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115		104	70 to 130	1.84	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115		101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115		107	70 to 130	7.25	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115		103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75		97.9	70 to 130	1.72	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23		117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115		96.7	70 to 130	2.09	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115		97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115		118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115		103	70 to 130	1.16	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15		97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115		105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115		105	70 to 130	2.25	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 13-Feb-17
 Customer ID:
 Delivery Date: 14-Feb-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX03560

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60			0.405	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX03727

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.106	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.161	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	39.2	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	J 0.0220	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/20/2017	SM 2540C		1		25	246	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	20	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		3	4.20	15	68	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX03727

Sample	Analysis	Units	MB	MB			LFB			Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	
AX03727	Mercury, Total by CVAA	mg/L	0.000110	0.0005	0.004	0.00385	0.00382	0.00387	0.0034 to 0.0046	96.2	70 to 130	0.688	20
AX03727	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.104	0.102	0.107	0.085 to 0.115	104	70 to 130	1.84	20
AX03727	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.73	20
AX03727	Lithium, Total	mg/L	-0.0000577	0.022	0.20	0.255	0.254	0.221	0.17 to 0.23	117	70 to 130	0.699	20
AX03727	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.0967	0.0947	0.0968	0.085 to 0.115	96.7	70 to 130	2.09	20
AX03727	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	1.59	20
AX03727	Calcium, Total	mg/L	-0.00733	0.22	5.00	44.1	43.3	5.10	4.25 to 5.75	97.9	70 to 130	1.72	20
AX03727	Boron, Total	mg/L	-0.000276	0.044	1.00	1.14	1.14	1.02	0.85 to 1.15	97.6	70 to 130	0.126	20
AX03727	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.105	0.103	0.109	0.085 to 0.115	105	70 to 130	1.85	20
AX03727	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.105	0.102	0.107	0.085 to 0.115	105	70 to 130	2.25	20
AX03727	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.207	0.205	0.103	0.085 to 0.115	101	70 to 130	0.589	20
AX03727	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.107	0.0991	0.106	0.085 to 0.115	107	70 to 130	7.25	20
AX03727	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0970	0.0966	0.0991	0.085 to 0.115	97.0	70 to 130	0.441	20
AX03727	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.118	0.113	0.113	0.085 to 0.115	118	70 to 130	4.24	20
AX03727	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.103	0.102	0.103	0.085 to 0.115	103	70 to 130	1.16	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX03727

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03727	Solids, Dissolved	mg/L	10.0	25			248	53.0	40 to 60			0.405	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
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 (205) 664-6032 or 6171
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Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX03728

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	J 0.000801	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0391	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	2.39	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	237	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	J 0.00507	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.0859	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0255	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00281	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		100	1180	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	43	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		30	42.0	150	670	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX03728

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130		0.805	20
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130		0.615	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130		0.837	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130		0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130		0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130		0.478	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130		0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130		0.428	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130		1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130		0.0191	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130		1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130		0.989	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130		0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130		4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130		1.34	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX03728

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX03729

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0796	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.148	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	31.1	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	J 0.0225	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	199	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	7.8	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		3	4.20	15	39	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX03729

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.615	20
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.805	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130	0.837	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130	0.428	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130	0.478	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130	1.34	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130	0.989	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130	0.0191	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX03729

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX03730

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00175	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0183	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.147	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	244	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	0.0840	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.292	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	J 0.000219	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		125	2380	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	7.4	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	J 0.050	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		60	84.0	300	1500	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX03730

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115	92.9	70 to 130	0.837	20
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115	102	70 to 130	0.615	20
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115	102	70 to 130	0.805	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115	96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75	62.0	70 to 130	0.0191	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115	97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15	101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23	137	70 to 130	0.478	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115	101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046	97.8	70 to 130	0.428	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115	99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115	103	70 to 130	0.989	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115	115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115	102	70 to 130	1.34	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX03730

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03731

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		2	2.80	10	U <2.8	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03731

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115	102	70 to 130	0.805	20
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115	102	70 to 130	0.615	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115	92.9	70 to 130	0.837	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115	96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75	62.0	70 to 130	0.0191	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115	99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115	103	70 to 130	0.989	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115	97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15	101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23	137	70 to 130	0.478	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115	115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115	102	70 to 130	1.34	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115	101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046	97.8	70 to 130	0.428	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03731

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX03732

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	0.0141	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0170	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.932	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	341	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.315	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0735	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		125	1600	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	44	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.31	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		45	63.0	230	950	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX03732

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.615	20
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.805	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130	0.837	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130	0.428	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130	0.478	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130	0.0191	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130	1.34	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130	0.989	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX03732

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60		2.43	5

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Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: AX03733

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	0.0137	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0161	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.938	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	328	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.317	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0688	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		125	1720	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	44	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.28	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		45	63.0	230	930	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: AX03733

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.805	20
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.615	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130	0.837	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130	0.478	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130	0.989	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130	0.428	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130	1.34	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130	0.0191	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: AX03733

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	5

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Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX03734

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00272	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0151	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	2.87	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	125	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	J 0.00209	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.209	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0895	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		100	1270	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	9.2	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.34	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		30	42.0	150	670	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX03734

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.805	20
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.615	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130	0.837	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130	0.478	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130	0.428	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130	0.0191	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130	1.34	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130	0.989	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX03734

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60			2.43	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX03735

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00272	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0414	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.722	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	82.7	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.180	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0293	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		50	608	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	24	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		12	17	60	250	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX03735

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.615	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130	0.837	20
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130	0.805	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130	0.0191	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130	0.478	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130	1.34	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130	0.989	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130	0.428	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX03735

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX03736

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00174	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0359	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.753	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	114	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.142	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0102	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		50	744	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	26	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	J 0.070	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		18	25	90	320	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX03736

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130		0.615	20
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115		102	70 to 130		0.805	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115		92.9	70 to 130		0.837	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115		99.5	70 to 130		1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115		103	70 to 130		0.989	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115		97.5	70 to 130		0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15		101	70 to 130		0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23		137	70 to 130		0.478	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115		96.5	70 to 130		1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75		62.0	70 to 130		0.0191	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115		101	70 to 130		0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046		97.8	70 to 130		0.428	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115		105	70 to 130		0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115		115	70 to 130		4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115		102	70 to 130		1.34	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX03736

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60	2.43	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX03737

Name	Analyst	Test Date	Reference	Vio	Spec	DF	MDL	RL	Q	Results	Units
Radiological											
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320			1				Attached	
Metals, Cyanide, Total Phenols											
* Antimony, Total	JHK	2/22/2017	EPA 200.8			5	0.00060	0.0030	U	Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8			5	0.0010	0.005	U	Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010		0.0337	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8			5	0.00060	0.0030	U	Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7			2	0.02	0.1		1.46	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7			10	1.0	5		89.3	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8			5	0.00020	0.0010	U	Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1			1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7			2	0.01	0.05		0.0574	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010		0.0422	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8			5	0.0010	0.005	U	Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8			5	0.00020	0.0010	U	Not Detected	mg/L
General Characteristics											
* Solids, Dissolved	KRC	2/22/2017	SM 2540C			1		100		844	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E			1	0.60	2.00		14	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C			1	0.032	0.10		0.36	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E			22	31	110		460	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and post digestion spike confirm matrix effect on the sample.
 Recovery for Calcium failed. The spike amount was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX03737

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AX03737	Selenium, Total	mg/L	0.0000463	0.0044	0.10	0.102	0.101	0.107	0.085 to 0.115	102	70 to 130	0.805	20
AX03737	Thallium, Total	mg/L	0.0000124	0.00044	0.10	0.102	0.101	0.107	0.085 to 0.115	102	70 to 130	0.615	20
AX03737	Molybdenum, Total	mg/L	0.0000195	0.0044	0.10	0.135	0.134	0.0968	0.085 to 0.115	92.9	70 to 130	0.837	20
AX03737	Cadmium, Total	mg/L	0.0000153	0.00044	0.10	0.0995	0.0978	0.103	0.085 to 0.115	99.5	70 to 130	1.73	20
AX03737	Lead, Total	mg/L	0.0000144	0.0022	0.10	0.103	0.102	0.109	0.085 to 0.115	103	70 to 130	0.989	20
AX03737	Barium, Total	mg/L	0.000000145	0.0044	0.10	0.131	0.130	0.103	0.085 to 0.115	97.5	70 to 130	0.558	20
AX03737	Boron, Total	mg/L	-0.000159	0.044	1.00	2.47	2.49	0.994	0.85 to 1.15	101	70 to 130	0.900	20
AX03737	Lithium, Total	mg/L	-0.0000640	0.022	0.20	0.332	0.333	0.216	0.17 to 0.23	137	70 to 130	0.478	20
AX03737	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.101	0.100	0.103	0.085 to 0.115	101	70 to 130	0.926	20
AX03737	Mercury, Total by CVAA	mg/L	0.000109	0.0005	0.004	0.00391	0.00389	0.00381	0.0034 to 0.0046	97.8	70 to 130	0.428	20
AX03737	Antimony, Total	mg/L	0.0000848	0.00132	0.10	0.0965	0.0947	0.0991	0.085 to 0.115	96.5	70 to 130	1.93	20
AX03737	Calcium, Total	mg/L	-0.00881	0.22	5.00	92.4	92.4	5.08	4.25 to 5.75	62.0	70 to 130	0.0191	20
AX03737	Arsenic, Total	mg/L	0.0000195	0.0022	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.497	20
AX03737	Beryllium, Total	mg/L	0.0000504	0.00132	0.10	0.115	0.109	0.113	0.085 to 0.115	115	70 to 130	4.69	20
AX03737	Cobalt, Total	mg/L	0.00000346	0.0044	0.100	0.102	0.103	0.106	0.085 to 0.115	102	70 to 130	1.34	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, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and post digestion spike confirm matrix effect on the sample.
 Recovery for Calcium failed. The spike amount was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX03737

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03737	Solids, Dissolved	mg/L	5.00	25			804	52.0	40 to 60			2.43	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and post digestion spike confirm matrix effect on the sample.
 Recovery for Calcium failed. The spike amount was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03738

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/24/2017	EPA 200.8		5	0.002	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/17/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	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, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03738

Sample	Analysis	Units	MB				LFB			Rec		Prec
			MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039320
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560 20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310 20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46 20
AX03738	Mercury, Total by CVAA	mg/L	0.000108	0.0005	0.004	0.00381	0.00383	0.00383	0.0034 to 0.0046	95.2	70 to 130	0.563 20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448 20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867 20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10 20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85 20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848 20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82 20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05 20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89 20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82 20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753 20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 14-Feb-17
 Customer ID:
 Delivery Date: 15-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03738

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX03884

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00189	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0227	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	2.12	mg/L
* Calcium, Total	HRG	4/4/2017	EPA 200.7		10	1.0	5	173	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.274	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0374	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		125	1470	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	9.9	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.59	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		35	49.0	180	860	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX03884

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039	320
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560	20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046	98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05	20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX03884

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249 5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03885

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03885

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.103	0.085 to 0.115	104	70 to 130	0.560	20	
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039320	20	
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.085 to 0.115	103	70 to 130	0.310	20	
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.0034 to 0.0046	98.9	70 to 130	0.738	20	
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.085 to 0.115	94.7	70 to 130	1.46	20	
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.17 to 0.23	128	70 to 130	1.89	20	
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.103	0.085 to 0.115	100	70 to 130	1.82	20	
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.085 to 0.115	102	70 to 130	0.753	20	
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.085 to 0.115	107	70 to 130	2.82	20	
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.85 to 1.15	99.1	70 to 130	2.05	20	
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.085 to 0.115	96.8	70 to 130	0.448	20	
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.085 to 0.115	101	70 to 130	0.867	20	
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.085 to 0.115	102	70 to 130	1.10	20	
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	4.25 to 5.75	64.0	70 to 130	3.85	20	
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.085 to 0.115	100	70 to 130	0.848	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAPFB
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX03885

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249	5

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 Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX03886

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00253	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0741	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	J 0.0714	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	50.7	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	J 0.0474	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	342	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	15	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		6	8.40	30	82	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX03886

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560	20
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039320	
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848	20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046	98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX03886

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60			0.249	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
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 (205) 664-6032 or 6171
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX03887

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00367	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0212	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	J 0.0889	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	15.7	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	0.0205	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.0908	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	305	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	9.4	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	J 0.060	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		6	8.40	30	110	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX03887

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039	320
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05	20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753	20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046	98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX03887

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249 5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13S Dup

Laboratory ID Number: AX03888

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	J 0.00377	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0213	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	J 0.0895	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	15.8	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	0.0206	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.0918	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	309	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	9.4	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	J 0.060	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		6	8.40	30	110	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13S Dup

Laboratory ID Number: AX03888

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039320	20
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560	20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046	98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848	20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-13S Dup

Laboratory ID Number: AX03888

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249 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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX03889

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0408	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	1.05	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	72.1	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	J 0.00327	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	0.0531	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0197	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		50	772	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.24	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		15	21.0	75	420	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX03889

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560	20
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039320	20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046	98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46	20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX03889

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX03890

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0153	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7		2	0.02	0.1	0.398	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7		2	0.1	0.5	20.9	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7		2	0.01	0.05	J 0.0385	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00211	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	2/22/2017	SM 2540C		1		25	221	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	2.7	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E		5	7.00	25	86	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX03890

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115		104	70 to 130	0.560	20
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115		101	70 to 130	0.0039320	
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115		103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046		98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115		94.7	70 to 130	1.46	20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23		128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115		100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115		102	70 to 130	0.753	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115		96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115		101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115		102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75		64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115		100	70 to 130	0.848	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115		107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15		99.1	70 to 130	2.05	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.

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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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX03890

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249	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, 2017

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9S Diss

Laboratory ID Number: AX03891

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Radiological									
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320		1			Attached	
Metals, Cyanide, Total Phenols									
* Antimony, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Arsenic, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	0.0150	mg/L
* Beryllium, Dissolved	JHK	2/27/2017	EPA 200.8		5	0.00060	0.0030	U Not Detected	mg/L
* Boron, Dissolved	HRG	4/11/2017	EPA 200.7		1	0.02	0.1	0.400	mg/L
* Calcium, Dissolved	HRG	4/11/2017	EPA 200.7		1	0.1	0.5	20.4	mg/L
* Cadmium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
* Cobalt, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Chromium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Mercury, Dissolved by CVAA	ABB	2/21/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Dissolved	HRG	4/11/2017	EPA 200.7		1	0.01	0.05	J 0.0433	mg/L
* Molybdenum, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	U Not Detected	mg/L
* Lead, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.0020	0.010	J 0.00222	mg/L
* Thallium, Dissolved	JHK	2/22/2017	EPA 200.8		5	0.00020	0.0010	U Not Detected	mg/L
General Characteristics									
* Chloride, Diss, Test America	SGC	3/29/2017	SM 4500 Cl_E		1	0.60	2.00	2.6	mg/L
* Fluoride, Diss, Test America	SGC	3/29/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Diss, Test America	SGC	3/29/2017	SM 4500 SO4_E		5	7.00	25	85	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, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and spike indicate matrix effect on the sample.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9S Diss

Laboratory ID Number: AX03891

Sample	Analysis	Units	MB	MB			MS	MSD	LFB	LFB		Rec		Prec	Limit
				Limit	Spike					Limit	Rec	Limit	Prec		
AX03891	Thallium, Dissolved	mg/L	0.0000232	0.00044	0.10	0.100	0.0992				100	70 to 130	1.10	20	
AX03891	Antimony, Dissolved	mg/L	0.0000191	0.00132	0.10	0.0935	0.0927				93.5	70 to 130	0.883	20	
AX03891	Lithium, Dissolved	mg/L	0.0000324	0.022	0.20	0.309	0.310	0.205	0.17 to 0.23		133	70 to 130	0.518	20	
AX03891	Molybdenum, Dissolved	mg/L	0.0000108	0.0044	0.10	0.0943	0.0935				94.3	70 to 130	0.859	20	
AX03891	Arsenic, Dissolved	mg/L	0.00000526	0.0022	0.10	0.1000	0.101				100	70 to 130	0.596	20	
AX03891	Calcium, Dissolved	mg/L	-0.000687	0.22	5.00	25.4	25.3	5.42	4.25 to 5.75		99.1	70 to 130	0.524	20	
AX03891	Selenium, Dissolved	mg/L	0.0000182	0.0044	0.10	0.102	0.101				99.8	70 to 130	1.42	20	
AX03891	Barium, Dissolved	mg/L	-0.00000641	0.0044	0.10	0.110	0.109				95.4	70 to 130	1.01	20	
AX03891	Beryllium, Dissolved	mg/L	0.0000251	0.00132	0.10	0.0998	0.0988				99.8	70 to 130	1.02	20	
AX03891	Cobalt, Dissolved	mg/L	0.00000294	0.0044	0.10	0.105	0.103				105	70 to 130	2.05	20	
AX03891	Boron, Dissolved	mg/L	0.000269	0.044	1.00	1.44	1.44	1.02	0.85 to 1.15		104	70 to 130	0.140	20	
AX03891	Cadmium, Dissolved	mg/L	0.00000862	0.00044	0.10	0.0992	0.0976				99.2	70 to 130	1.60	20	
AX03891	Chromium, Dissolved	mg/L	0.00000354	0.0044	0.10	0.100	0.0998				100	70 to 130	0.446	20	
AX03891	Lead, Dissolved	mg/L	0.00000134	0.0022	0.10	0.100	0.0988				100	70 to 130	1.34	20	
AX03891	Mercury, Dissolved by CVAA	mg/L	0.000133	0.0005	0.004	0.00394	0.00397	0.00390	0.0034 to 0.0046		98.4	70 to 130	0.935	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, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and spike indicate matrix effect on the sample.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9S Diss

Laboratory ID Number: AX03891

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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 Recovery for Lithium failed. Serial dilution and spike indicate matrix effect on the sample.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX03892

Name	Analyst	Test Date	Reference	Vio	Spec	DF	MDL	RL	Q	Results	Units
Radiological											
Total Radium, Test America	SGC	5/3/2017	EPA 9315/9320			1				Attached	
Metals, Cyanide, Total Phenols											
* Antimony, Total	JHK	2/22/2017	EPA 200.8			5	0.00060	0.0030	U	Not Detected	mg/L
* Arsenic, Total	JHK	2/22/2017	EPA 200.8			5	0.0010	0.005	J	0.00232	mg/L
* Barium, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010		0.0129	mg/L
* Beryllium, Total	JHK	2/22/2017	EPA 200.8			5	0.00060	0.0030	U	Not Detected	mg/L
* Boron, Total	HRG	3/30/2017	EPA 200.7			2	0.02	0.1		0.708	mg/L
* Calcium, Total	HRG	3/30/2017	EPA 200.7			2	0.10	0.5		68.2	mg/L
* Cadmium, Total	JHK	2/22/2017	EPA 200.8			5	0.00020	0.0010	U	Not Detected	mg/L
* Cobalt, Total	JHK	2/23/2017	EPA 200.8			5	0.0020	0.010		0.0192	mg/L
* Chromium, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	2/21/2017	EPA 245.1			1	0.00025	0.0005	U	Not Detected	mg/L
* Lithium, Total	HRG	3/30/2017	EPA 200.7			2	0.01	0.05		0.0896	mg/L
* Molybdenum, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Lead, Total	JHK	2/22/2017	EPA 200.8			5	0.0010	0.005	U	Not Detected	mg/L
* Selenium, Total	JHK	2/22/2017	EPA 200.8			5	0.0020	0.010	U	Not Detected	mg/L
* Thallium, Total	JHK	2/22/2017	EPA 200.8			5	0.00020	0.0010	U	Not Detected	mg/L
General Characteristics											
* Solids, Dissolved	KRC	2/22/2017	SM 2540C			1		50		804	mg/L
* Chloride, Total, by Test America	SGC	3/29/2017	SM 4500 Cl_E			1	0.60	2.00		13	mg/L
* Fluoride, Total, by Test America	SGC	3/29/2017	SM 4500 F_C			1	0.032	0.10		0.11	mg/L
* Sulfate, Total, by Test America	SGC	3/29/2017	SM 4500 SO4_E			20	28.0	100		460	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and post digestion spike confirm matrix effects on the sample.
 Recovery for Calcium failed. The spike amount was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX03892

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX03892	Cobalt, Total	mg/L	0.0000162	0.0044	0.100	0.121	0.121	0.106	0.085 to 0.115	101	70 to 130	0.0039	320
AX03892	Arsenic, Total	mg/L	0.0000200	0.0022	0.10	0.106	0.107	0.103	0.085 to 0.115	104	70 to 130	0.560	20
AX03892	Lead, Total	mg/L	0.0000160	0.0022	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.310	20
AX03892	Mercury, Total by CVAA	mg/L	0.000145	0.0005	0.004	0.00396	0.00399	0.00403	0.0034 to 0.0046	98.9	70 to 130	0.738	20
AX03892	Molybdenum, Total	mg/L	0.0000233	0.0044	0.10	0.0947	0.0961	0.0927	0.085 to 0.115	94.7	70 to 130	1.46	20
AX03892	Beryllium, Total	mg/L	0.0000662	0.00132	0.10	0.107	0.104	0.110	0.085 to 0.115	107	70 to 130	2.82	20
AX03892	Boron, Total	mg/L	0.000256	0.044	1.00	1.70	1.73	0.999	0.85 to 1.15	99.1	70 to 130	2.05	20
AX03892	Antimony, Total	mg/L	0.0000852	0.00132	0.10	0.0968	0.0972	0.0962	0.085 to 0.115	96.8	70 to 130	0.448	20
AX03892	Barium, Total	mg/L	0.00000196	0.0044	0.10	0.114	0.115	0.100	0.085 to 0.115	101	70 to 130	0.867	20
AX03892	Cadmium, Total	mg/L	0.00000605	0.00044	0.10	0.102	0.100	0.100	0.085 to 0.115	102	70 to 130	1.10	20
AX03892	Calcium, Total	mg/L	-0.00633	0.22	5.00	71.4	74.2	5.13	4.25 to 5.75	64.0	70 to 130	3.85	20
AX03892	Chromium, Total	mg/L	0.0000194	0.0044	0.10	0.100	0.101	0.0999	0.085 to 0.115	100	70 to 130	0.848	20
AX03892	Lithium, Total	mg/L	-0.0000876	0.022	0.20	0.345	0.351	0.220	0.17 to 0.23	128	70 to 130	1.89	20
AX03892	Selenium, Total	mg/L	0.0000362	0.0044	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.82	20
AX03892	Thallium, Total	mg/L	0.0000120	0.00044	0.10	0.102	0.103	0.104	0.085 to 0.115	102	70 to 130	0.753	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and post digestion spike confirm matrix effects on the sample.
 Recovery for Calcium failed. The spike amount was less than 30% of the sample concentration.

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
 John Pugh

Customer Account: WMWMILAP
 Sample Date: 15-Feb-17
 Customer ID:
 Delivery Date: 16-Feb-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX03892

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX03892	Solids, Dissolved	mg/L	5.00	25			800	52.0	40 to 60		0.249 5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Lithium failed. Serial dilution and post digestion spike confirm matrix effects on the sample.
 Recovery for Calcium failed. The spike amount was less than 30% of the sample concentration.

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 02/13/2017 19:00

Requested Complete Date	Routine
Site Representative	Jeff K. Baker
Collector	Nick Pitts

Results To	Dustin Brooks, John Pugh, Greg Dyer
Requested By	Greg Dyer
Location	Miller Ash Pond

Analysis Requested	Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions
Comments	Relinquished after hours in room 223 Prep Lab in secured Building 8, General Services Complex 2/13/2017 at 1900 Received from room 223. Due to instrument issues, all anions were sent to Test America Pensacola for analysis. Sulfate analysis by Test America was out of hold time, will re-sample for Sulfate.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	02/13/2017	14:17	5	Groundwater		AX03552
EB-1	02/13/2017	16:20	5	Equipment Blank		AX03553

Relinquished By	Received By	Date/Time
		02/13/2017 17:00
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southemco.com, c=US Date: 2017.02.14 09:23:12 -0600</small>	02/14/2017 09:23

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	1.4 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	5521-28270-20-14	



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 02/14/2017 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions		
Comments	Relinquished after hours in room 223 Prep Lab in secured Building 8, General Services Complex 2/13/2017 at 1900 Received from room 223. Due to instrument issues, all anions outsourced to Test America Pensacola. Sulfate analysis by Test America is out of hold time, will re-sample for Sulfate.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	02/13/2017	11:20	5	Groundwater		AX03554
MW-3S	02/13/2017	12:35	5	Groundwater		AX03555
MW-4	02/13/2017	13:50	5	Groundwater		AX03556
MW-6	02/13/2017	15:00	5	Groundwater		AX03557
MW-6 DUP	02/13/2017	15:00	5	Sample Duplicate		AX03558

Relinquished By	Received By	Date/Time
		02/13/2017 17:10
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.02.14 09:24:51 -0600'</small>	02/14/2017 09:24

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
		1.4 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		5521-28270-20-14



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

Field Complete
 Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Jason Rouss"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions"/>		
Comments	<input type="text" value="Relinquished after hours in room 223 Prep Lab in secured Building 8, General Services Complex 2/13/2017 at 1900 Received from room 223. Due to instrument issues, all anions outsourced to Test America Pensacola. Sulfate analysis by Test America is out of hold time, will re-sample for Sulfate."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	02/13/2017	12:42	5	Groundwater		AX03559
MW-1	02/13/2017	15:55	5	Groundwater		AX03560

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.02.14 09:26:00 -0600</small>	02/14/2017 09:25

SmarTroll ID	<input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="4677-23342-4-1"/>	
Cooler Temp	<input type="text" value="1.4 degrees C"/>	
Thermometer ID	<input type="text" value="5408-27568-2-2"/>	
pH Strip ID	<input type="text" value="5521-28270-20-14"/>	



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

Field Complete

Lab Complete

Lab ETA 02/15/2017 08:00

Requested Complete Date Routine
 Site Representative Jeff K. Baker
 Collector Jason Rouss

Results To Dustin Brooks, John Pugh, Greg Dyer
 Requested By Greg Dyer
 Location Miller Ash Pond

Analysis Requested Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions
 Comments Radium duplicate collected at MW-15
 Due to instrument issues, all anions outsourced to Test America Pensacola.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-15	02/14/2017	10:12	7	Groundwater		AX03727
MW-16	02/14/2017	11:32	5	Groundwater		AX03728
MW-14	02/14/2017	12:52	5	Groundwater		AX03729

Relinquished By	Received By	Date/Time
		02/14/2017 13:21
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgc@copela@southernco.com, c=US Date: 2017.02.15 08:48:31 -0600'</small>	02/15/2017 08:48

SmarTroll ID 4696-23443-3-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp 1.0 degrees C Thermometer ID 5408-27568-2-2 pH Strip ID 5521-28270-20-14
Turbidity ID 4677-23342-4-1	



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 02/15/2017 08:00

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, John Pugh, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Nick Pitts"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions"/>		
Comments	<input type="text" value="Due to instrument issues, all anions outsourced to Test America Pensacola."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	02/14/2017	10:02	5	Groundwater		AX03730
FB-3	02/14/2017	10:30	5	Field Blank		AX03731
MW-5	02/14/2017	11:35	5	Groundwater		AX03732
MW-5 Dup	02/14/2017	11:35	5	Sample Duplicate		AX03733

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: 2017.02.15 08:49:42 -06'00'</small>	02/15/2017 08:49

SmarTroll ID <input type="text" value="5141-26150-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID <input type="text" value="4677-23343-4-2"/>	Cooler Temp <input type="text" value="1.0 degrees C"/>
	Thermometer ID <input type="text" value="5408-27568-2-2"/>
	pH Strip ID <input type="text" value="5521-28270-20-14"/>



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 02/15/2017 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschadl	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions		
Comments	Due to instrument issues, all anions outsourced to Test America Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	02/14/2017	09:40	5	Groundwater		AX03734
MW-7S	02/14/2017	11:15	5	Groundwater		AX03735
MW-7D	02/14/2017	12:13	5	Groundwater		AX03736
MW-8S	02/14/2017	13:20	5	Groundwater		AX03737
FB-1	02/14/2017	13:45	5	Field Blank		AX03738

Relinquished By	Received By	Date/Time
<i>Ben Rothschadl</i>	<i>Sarah Copeland</i>	02/14/2017 13:57
<i>Ben Rothschadl</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.02.15 08:51:05 -0600</small>	02/15/2017 08:51

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
		1.0 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		5521-28270-20-14



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

Field Complete
 Lab Complete

Lab ETA 02/16/2017 08:15

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions		
Comments	Due to instrument issue, all anions outsourced to Test America Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	02/15/2017	09:25	5	Groundwater		AX03884
FB-2	02/15/2017	09:55	5	Field Blank		AX03885
MW-13D	02/15/2017	11:30	5	Groundwater		AX03886
MW-13S	02/15/2017	13:05	5	Groundwater		AX03887
MW-13S Dup	02/15/2017	13:05	5	Sample Duplicate		AX03888
MW-8D	02/15/2017	15:16	5	Groundwater		AX03889

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: 2017.02.16 08:51:09 -0600</small>	02/16/2017 08:51

SmarTroll ID 4696-23443-3-2 Turbidity ID 4677-23342-4-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp 0.4 degrees C Thermometer ID 5408-27568-2-2 pH Strip ID 5521-28270-20-14
--	---



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 02/16/2017 09:30

Requested Complete Date	Routine	Results To	Dustin Brooks, John Pugh, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschadl	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological, Bottle 2 (500mL): Metals, Bottle 3 (250mL): Hg, Bottle 4 (500mL): TDS, Bottle 5 (250mL): Anions		
Comments	Radium Duplicate collected at MW-9D; MW-9D sample date listed incorrectly as 2/16/17. Added 3.0mL HNO3 to Bottle 1, 2.0mL HNO3 to Bottle 2, 1.0mL HNO3 to Bottle 3-2/16 SGC Filter ID:54710-27978-9-2 Due to instrument issues, all anions outsourced to Test America Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9S	02/15/2017	14:16	5	Groundwater		AX03890
MW-9S DIS	02/15/2017	14:23	5	Groundwater	✓	AX03891
MW-9D	02/15/2017	15:30	7	Groundwater		AX03892

Relinquished By	Received By	Date/Time
<i>Ben Rothschadl</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.02.16 10:26:39 -0600</small>	02/16/2017 10:26

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	
Cooler Temp	0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	5521-28270-20-14	

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: 400-134192-1

TestAmerica Sample Delivery Group: Miller Ash Pond (5)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

3/27/2017 12:17:29 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 Miller

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

Job ID: 400-134192-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-134192-1

RAD

Method(s) 9320: Radium-228 Batch 295127: The radium-228 detection goal was not met for the following sample due to a low barium carrier recovery of 64%: AX03727 MW-15 (400-134192-10[DUJ]). The carrier recovery was within acceptance criteria (40-110%) and duplicate precision was met. Analytical results are reported with the detection limit achieved.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-295074. The following sample was reduced to 750 mL due to limited volume: AX03892 MW-9D (400-134192-30) and AX03892 MW-9D (400-134192-30[DUJ]).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-295115. The following samples were reduced to 750 mL due to limited volume: AX03552 PZ-5 (400-134192-1), AX03553 EB-1 (400-134192-2), AX03554 MW-3D (400-134192-3), AX03555 MW-3S (400-134192-4), AX03556 MW-4 (400-134192-5), AX03557 MW-6 (400-134192-6), AX03558 MW-6 DUP (400-134192-7), AX03559 MW-11 (400-134192-8) and AX03560 MW-1 (400-134192-9).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-295115. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 160-295115 and 160-295115. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared to demonstrate batch precision.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-295127. The following samples were reduced to 750 mL due to limited volume: AX03727 MW-15 (400-134192-10), AX03727 MW-15 (400-134192-10[DUJ]), AX03728 MW-16 (400-134192-11), AX03729 MW-14 (400-134192-12), AX03730 MW-2 (400-134192-13), AX03731 FB-3 (400-134192-14), AX03732 MW-5 (400-134192-15), AX03733 MW-5 DUP (400-134192-16), AX03734 MW-10 (400-134192-17), AX03735 MW-7S (400-134192-18), AX03736 MW-7D (400-134192-19), AX03737 MW-8S (400-134192-20), AX03738 FB-1 (400-134192-21), AX03884 MW-12 (400-134192-22), AX03885 FB-2 (400-134192-23), AX03886 MW-13D (400-134192-24), AX03887 MW-13S (400-134192-25), AX03888 MW-13S DUP (400-134192-26), AX03889 MW-8D (400-134192-27), AX03890 MW-9S (400-134192-28) and AX03891 MW-9S DISSOLVED (400-134192-29).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-295066. The following sample was reduced to 750 mL due to limited volume: AX03892 MW-9D (400-134192-30) and AX03892 MW-9D (400-134192-30[DUJ]).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-295109. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 160-295109. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared to demonstrate batch precision.

Method(s) PrecSep-21: Radium 226 Prep Batch 160-295109. The following samples were reduced to 750 mL due to limited volume: AX03552 PZ-5 (400-134192-1), AX03553 EB-1 (400-134192-2), AX03554 MW-3D (400-134192-3), AX03555 MW-3S (400-134192-4), AX03556 MW-4 (400-134192-5), AX03557 MW-6 (400-134192-6), AX03558 MW-6 DUP (400-134192-7), AX03559 MW-11 (400-134192-8) and AX03560 MW-1 (400-134192-9).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-295124. The following samples were reduced to 750 mL due to limited volume: AX03727 MW-15 (400-134192-10), AX03727 MW-15 (400-134192-10[DUJ]), AX03728 MW-16 (400-134192-11), AX03729 MW-14 (400-134192-12), AX03730 MW-2 (400-134192-13), AX03731 FB-3 (400-134192-14), AX03732 MW-5 (400-134192-15), AX03733 MW-5 DUP (400-134192-16), AX03734 MW-10 (400-134192-17), AX03735 MW-7S (400-134192-18), AX03736 MW-7D (400-134192-19), AX03737 MW-8S (400-134192-20), AX03738 FB-1 (400-134192-21), AX03884 MW-12 (400-134192-22), AX03885 FB-2 (400-134192-23), AX03886 MW-13D (400-134192-24), AX03887 MW-13S (400-134192-25), AX03888 MW-13S DUP (400-134192-26), AX03889 MW-8D (400-134192-27), AX03890 MW-9S (400-134192-28) and AX03891 MW-9S DISSOLVED (400-134192-29).

Method Summary

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

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

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 Miller

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-134192-1	AX03552 PZ-5	Water	02/13/17 14:17	02/21/17 16:00
400-134192-2	AX03553 EB-1	Water	02/13/17 16:20	02/21/17 16:00
400-134192-3	AX03554 MW-3D	Water	02/13/17 11:20	02/21/17 16:00
400-134192-4	AX03555 MW-3S	Water	02/13/17 12:35	02/21/17 16:00
400-134192-5	AX03556 MW-4	Water	02/13/17 13:50	02/21/17 16:00
400-134192-6	AX03557 MW-6	Water	02/13/17 15:00	02/21/17 16:00
400-134192-7	AX03558 MW-6 DUP	Water	02/13/17 15:00	02/21/17 16:00
400-134192-8	AX03559 MW-11	Water	02/13/17 12:42	02/21/17 16:00
400-134192-9	AX03560 MW-1	Water	02/13/17 15:55	02/21/17 16:00
400-134192-10	AX03727 MW-15	Water	02/14/17 10:12	02/21/17 16:00
400-134192-11	AX03728 MW-16	Water	02/14/17 11:32	02/21/17 16:00
400-134192-12	AX03729 MW-14	Water	02/14/17 12:52	02/21/17 16:00
400-134192-13	AX03730 MW-2	Water	02/14/17 10:02	02/21/17 16:00
400-134192-14	AX03731 FB-3	Water	02/14/17 10:30	02/21/17 16:00
400-134192-15	AX03732 MW-5	Water	02/14/17 11:35	02/21/17 16:00
400-134192-16	AX03733 MW-5 DUP	Water	02/14/17 11:35	02/21/17 16:00
400-134192-17	AX03734 MW-10	Water	02/14/17 09:40	02/21/17 16:00
400-134192-18	AX03735 MW-7S	Water	02/14/17 11:15	02/21/17 16:00
400-134192-19	AX03736 MW-7D	Water	02/14/17 12:13	02/21/17 16:00
400-134192-20	AX03737 MW-8S	Water	02/14/17 13:20	02/21/17 16:00
400-134192-21	AX03738 FB-1	Water	02/14/17 13:45	02/21/17 16:00
400-134192-22	AX03884 MW-12	Water	02/15/17 09:25	02/21/17 16:00
400-134192-23	AX03885 FB-2	Water	02/15/17 09:55	02/21/17 16:00
400-134192-24	AX03886 MW-13D	Water	02/15/17 11:30	02/21/17 16:00
400-134192-25	AX03887 MW-13S	Water	02/15/17 13:05	02/21/17 16:00
400-134192-26	AX03888 MW-13S DUP	Water	02/15/17 13:05	02/21/17 16:00
400-134192-27	AX03889 MW-8D	Water	02/15/17 15:16	02/21/17 16:00
400-134192-28	AX03890 MW-9S	Water	02/15/17 14:16	02/21/17 16:00
400-134192-29	AX03891 MW-9S DISSOLVED	Water	02/15/17 14:23	02/21/17 16:00
400-134192-30	AX03892 MW-9D	Water	02/15/17 15:30	02/21/17 16:00

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03552 PZ-5

Lab Sample ID: 400-134192-1

Date Collected: 02/13/17 14:17

Matrix: Water

Date Received: 02/21/17 16:00

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	0.104	0.104	1.00	0.164	pCi/L	02/28/17 12:54	03/22/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/28/17 12:54	03/22/17 05:53	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	0.321	0.322	1.00	0.547	pCi/L	02/28/17 13:38	03/14/17 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/28/17 13:38	03/14/17 15:50	1
Y Carrier	83.4		40 - 110					02/28/17 13:38	03/14/17 15:50	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	0.279	U	0.338	0.338	5.00	0.547	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03553 EB-1

Lab Sample ID: 400-134192-2

Date Collected: 02/13/17 16:20

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0590	U	0.0798	0.0800	1.00	0.134	pCi/L	02/28/17 12:54	03/22/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/28/17 12:54	03/22/17 05:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00274	U	0.314	0.314	1.00	0.559	pCi/L	02/28/17 13:38	03/14/17 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/28/17 13:38	03/14/17 15:50	1
Y Carrier	87.9		40 - 110					02/28/17 13:38	03/14/17 15:50	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	0.0563	U	0.324	0.324	5.00	0.559	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03554 MW-3D

Lab Sample ID: 400-134192-3

Date Collected: 02/13/17 11:20

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.190		0.117	0.119	1.00	0.156	pCi/L	02/28/17 12:54	03/22/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					02/28/17 12:54	03/22/17 05:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.202	U	0.248	0.249	1.00	0.491	pCi/L	02/28/17 13:38	03/14/17 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					02/28/17 13:38	03/14/17 15:50	1
Y Carrier	87.1		40 - 110					02/28/17 13:38	03/14/17 15:50	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	-0.0115	U	0.275	0.276	5.00	0.491	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03555 MW-3S

Lab Sample ID: 400-134192-4

Date Collected: 02/13/17 12:35

Matrix: Water

Date Received: 02/21/17 16:00

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		0.102	0.103	1.00	0.121	pCi/L	02/28/17 12:54	03/22/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					02/28/17 12:54	03/22/17 05:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0529	U	0.381	0.381	1.00	0.666	pCi/L	02/28/17 13:38	03/14/17 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					02/28/17 13:38	03/14/17 15:51	1
Y Carrier	86.4		40 - 110					02/28/17 13:38	03/14/17 15:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.226	U	0.394	0.394	5.00	0.666	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03556 MW-4

Lab Sample ID: 400-134192-5

Date Collected: 02/13/17 13:50

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152		0.104	0.105	1.00	0.140	pCi/L	02/28/17 12:54	03/22/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					02/28/17 12:54	03/22/17 05:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.612	U	0.433	0.437	1.00	0.682	pCi/L	02/28/17 13:38	03/14/17 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					02/28/17 13:38	03/14/17 15:52	1
Y Carrier	85.6		40 - 110					02/28/17 13:38	03/14/17 15:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.764		0.445	0.449	5.00	0.682	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03557 MW-6

Lab Sample ID: 400-134192-6

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0628	U	0.0735	0.0737	1.00	0.118	pCi/L	02/28/17 12:54	03/22/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/28/17 12:54	03/22/17 05:53	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	0.329	0.329	1.00	0.599	pCi/L	02/28/17 13:38	03/14/17 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/28/17 13:38	03/14/17 15:52	1
Y Carrier	88.6		40 - 110					02/28/17 13:38	03/14/17 15:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0383	U	0.337	0.337	5.00	0.599	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03558 MW-6 DUP

Lab Sample ID: 400-134192-7

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0418	U	0.0786	0.0787	1.00	0.140	pCi/L	02/28/17 12:54	03/22/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					02/28/17 12:54	03/22/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.105	U	0.329	0.329	1.00	0.598	pCi/L	02/28/17 13:38	03/14/17 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					02/28/17 13:38	03/14/17 15:52	1
Y Carrier	89.3		40 - 110					02/28/17 13:38	03/14/17 15:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0637	U	0.338	0.339	5.00	0.598	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03559 MW-11

Lab Sample ID: 400-134192-8

Date Collected: 02/13/17 12:42

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.216		0.125	0.127	1.00	0.169	pCi/L	02/28/17 12:54	03/22/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					02/28/17 12:54	03/22/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.274	U	0.351	0.352	1.00	0.656	pCi/L	02/28/17 13:38	03/14/17 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					02/28/17 13:38	03/14/17 15:52	1
Y Carrier	89.7		40 - 110					02/28/17 13:38	03/14/17 15:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0581	U	0.373	0.374	5.00	0.656	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03560 MW-1

Lab Sample ID: 400-134192-9

Date Collected: 02/13/17 15:55

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191		0.122	0.123	1.00	0.170	pCi/L	02/28/17 12:54	03/22/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/28/17 12:54	03/22/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.144	U	0.300	0.300	1.00	0.557	pCi/L	02/28/17 13:38	03/14/17 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/28/17 13:38	03/14/17 15:52	1
Y Carrier	89.3		40 - 110					02/28/17 13:38	03/14/17 15:52	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0464	U	0.324	0.325	5.00	0.557	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03727 MW-15

Lab Sample ID: 400-134192-10

Date Collected: 02/14/17 10:12

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.160	U	0.199	0.199	1.00	0.329	pCi/L	02/28/17 14:21	03/22/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					02/28/17 14:21	03/22/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.300	U	0.421	0.422	1.00	0.701	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	80.7		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.459	U	0.465	0.466	5.00	0.701	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03728 MW-16

Lab Sample ID: 400-134192-11

Date Collected: 02/14/17 11:32

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0604	U	0.167	0.167	1.00	0.311	pCi/L	02/28/17 14:21	03/22/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					02/28/17 14:21	03/22/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.204	U	0.356	0.357	1.00	0.602	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	88.2		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.264	U	0.394	0.394	5.00	0.602	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03729 MW-14

Lab Sample ID: 400-134192-12

Date Collected: 02/14/17 12:52

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.256		0.182	0.184	1.00	0.245	pCi/L	02/28/17 14:21	03/22/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 14:21	03/22/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0545	U	0.317	0.317	1.00	0.579	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	81.5		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.202	U	0.366	0.367	5.00	0.579	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03730 MW-2

Lab Sample ID: 400-134192-13

Date Collected: 02/14/17 10:02

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0325	U	0.132	0.132	1.00	0.259	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.411	U	0.376	0.378	1.00	0.607	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	88.6		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.444	U	0.398	0.400	5.00	0.607	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03731 FB-3

Lab Sample ID: 400-134192-14

Date Collected: 02/14/17 10:30

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.227	U	0.189	0.190	1.00	0.280	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.486	U	0.546	0.548	1.00	0.897	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	52.7		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.713	U	0.578	0.580	5.00	0.897	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03732 MW-5

Lab Sample ID: 400-134192-15

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00204	U	0.142	0.142	1.00	0.293	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.498	U	0.404	0.406	1.00	0.641	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	74.8		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.500	U	0.428	0.430	5.00	0.641	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03733 MW-5 DUP

Lab Sample ID: 400-134192-16

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119	U	0.164	0.164	1.00	0.277	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.13		0.422	0.435	1.00	0.585	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	83.7		40 - 110					02/28/17 15:01	03/20/17 15:39	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	1.25		0.453	0.465	5.00	0.585	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03734 MW-10

Lab Sample ID: 400-134192-17

Date Collected: 02/14/17 09:40

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0992	U	0.168	0.168	1.00	0.293	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.261	U	0.358	0.358	1.00	0.597	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	84.1		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.360	U	0.395	0.396	5.00	0.597	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03735 MW-7S

Lab Sample ID: 400-134192-18

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0573	U	0.147	0.147	1.00	0.275	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.258	U	0.356	0.357	1.00	0.595	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	82.2		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.315	U	0.385	0.386	5.00	0.595	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03736 MW-7D

Lab Sample ID: 400-134192-19

Date Collected: 02/14/17 12:13

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.177	U	0.177	0.178	1.00	0.275	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.405	0.406	1.00	0.680	pCi/L	02/28/17 15:01	03/20/17 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					02/28/17 15:01	03/20/17 15:39	1
Y Carrier	83.4		40 - 110					02/28/17 15:01	03/20/17 15:39	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	0.437	U	0.442	0.443	5.00	0.680	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03737 MW-8S

Lab Sample ID: 400-134192-20

Date Collected: 02/14/17 13:20

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.188	U	0.174	0.175	1.00	0.263	pCi/L	02/28/17 14:21	03/22/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					02/28/17 14:21	03/22/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.649		0.337	0.342	1.00	0.495	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	85.6		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.837		0.379	0.384	5.00	0.495	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03738 FB-1

Lab Sample ID: 400-134192-21

Date Collected: 02/14/17 13:45

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211	U	0.201	0.202	1.00	0.310	pCi/L	02/28/17 14:21	03/22/17 06:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 14:21	03/22/17 06:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.218	U	0.322	0.322	1.00	0.540	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	85.2		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.429	U	0.379	0.380	5.00	0.540	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03884 MW-12

Lab Sample ID: 400-134192-22

Date Collected: 02/15/17 09:25

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.192	0.192	1.00	0.325	pCi/L	02/28/17 14:21	03/22/17 06:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/28/17 14:21	03/22/17 06:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.683		0.337	0.343	1.00	0.486	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	82.6		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.821		0.388	0.393	5.00	0.486	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03885 FB-2

Lab Sample ID: 400-134192-23

Date Collected: 02/15/17 09:55

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.251	U	0.204	0.206	1.00	0.298	pCi/L	02/28/17 14:21	03/22/17 06:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 14:21	03/22/17 06:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0829	U	0.389	0.389	1.00	0.701	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	79.6		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.168	U	0.440	0.440	5.00	0.701	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03886 MW-13D

Lab Sample ID: 400-134192-24

Date Collected: 02/15/17 11:30

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191	U	0.204	0.205	1.00	0.325	pCi/L	02/28/17 14:21	03/22/17 06:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					02/28/17 14:21	03/22/17 06:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.202	U	0.328	0.329	1.00	0.554	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	83.0		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.393	U	0.386	0.387	5.00	0.554	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03887 MW-13S

Lab Sample ID: 400-134192-25

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.424		0.266	0.268	1.00	0.365	pCi/L	02/28/17 14:21	03/22/17 06:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					02/28/17 14:21	03/22/17 06:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.801		0.342	0.350	1.00	0.474	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	83.0		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.22		0.433	0.441	5.00	0.474	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03888 MW-13S DUP

Lab Sample ID: 400-134192-26

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166	U	0.192	0.193	1.00	0.311	pCi/L	02/28/17 14:21	03/22/17 06:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/28/17 14:21	03/22/17 06:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.464	U	0.370	0.373	1.00	0.586	pCi/L	02/28/17 15:01	03/20/17 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/28/17 15:01	03/20/17 15:53	1
Y Carrier	80.7		40 - 110					02/28/17 15:01	03/20/17 15:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.630		0.417	0.419	5.00	0.586	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03889 MW-8D

Lab Sample ID: 400-134192-27

Date Collected: 02/15/17 15:16

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174	U	0.200	0.200	1.00	0.323	pCi/L	02/28/17 14:21	03/22/17 06:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					02/28/17 14:21	03/22/17 06:04	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	U	0.358	0.360	1.00	0.558	pCi/L	02/28/17 15:01	03/20/17 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					02/28/17 15:01	03/20/17 15:54	1
Y Carrier	81.1		40 - 110					02/28/17 15:01	03/20/17 15:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.665		0.409	0.412	5.00	0.558	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03890 MW-9S

Lab Sample ID: 400-134192-28

Date Collected: 02/15/17 14:16

Matrix: Water

Date Received: 02/21/17 16:00

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		0.222	0.224	1.00	0.296	pCi/L	02/28/17 14:21	03/22/17 06:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					02/28/17 14:21	03/22/17 06:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.432	U	0.343	0.346	1.00	0.543	pCi/L	02/28/17 15:01	03/20/17 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					02/28/17 15:01	03/20/17 15:54	1
Y Carrier	86.7		40 - 110					02/28/17 15:01	03/20/17 15:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.760		0.409	0.412	5.00	0.543	pCi/L		03/22/17 12:58	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03891 MW-9S DISSOLVED

Lab Sample ID: 400-134192-29

Date Collected: 02/15/17 14:23

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0135	U	0.171	0.171	1.00	0.354	pCi/L	02/28/17 14:21	03/22/17 06:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 14:21	03/22/17 06:04	1

Method: 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606		0.384	0.388	1.00	0.588	pCi/L	02/28/17 15:01	03/20/17 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					02/28/17 15:01	03/20/17 15:54	1
Y Carrier	79.3		40 - 110					02/28/17 15:01	03/20/17 15:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.5925			0.424	5	0.588	pCi/L		03/23/17 09:22	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03892 MW-9D

Lab Sample ID: 400-134192-30

Date Collected: 02/15/17 15:30

Matrix: Water

Date Received: 02/21/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0380	U	0.0853	0.0854	1.00	0.155	pCi/L	02/28/17 09:47	03/22/17 08:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/28/17 09:47	03/22/17 08:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0153	U	0.346	0.346	1.00	0.617	pCi/L	02/28/17 10:03	03/14/17 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/28/17 10:03	03/14/17 11:14	1
Y Carrier	83.4		40 - 110					02/28/17 10:03	03/14/17 11:14	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	0.0228	U	0.356	0.356	5.00	0.617	pCi/L		03/22/17 12:58	1

Definitions/Glossary

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

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03552 PZ-5

Lab Sample ID: 400-134192-1

Date Collected: 02/13/17 14:17

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298902	03/22/17 05:53	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297616	03/14/17 15:50	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03553 EB-1

Lab Sample ID: 400-134192-2

Date Collected: 02/13/17 16:20

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298902	03/22/17 05:53	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297616	03/14/17 15:50	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03554 MW-3D

Lab Sample ID: 400-134192-3

Date Collected: 02/13/17 11:20

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298902	03/22/17 05:53	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297616	03/14/17 15:50	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03555 MW-3S

Lab Sample ID: 400-134192-4

Date Collected: 02/13/17 12:35

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298902	03/22/17 05:53	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297616	03/14/17 15:51	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03556 MW-4

Lab Sample ID: 400-134192-5

Date Collected: 02/13/17 13:50

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298902	03/22/17 05:53	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297618	03/14/17 15:52	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03557 MW-6

Lab Sample ID: 400-134192-6

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298902	03/22/17 05:53	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297618	03/14/17 15:52	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03558 MW-6 DUP

Lab Sample ID: 400-134192-7

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 05:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297618	03/14/17 15:52	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03559 MW-11

Lab Sample ID: 400-134192-8

Date Collected: 02/13/17 12:42

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 05:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297618	03/14/17 15:52	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03560 MW-1

Lab Sample ID: 400-134192-9

Date Collected: 02/13/17 15:55

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295109	02/28/17 12:54	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 05:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295115	02/28/17 13:38	MBC	TAL SL
Total/NA	Analysis	9320		1	297618	03/14/17 15:52	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03727 MW-15

Lab Sample ID: 400-134192-10

Date Collected: 02/14/17 10:12

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 05:59	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03728 MW-16

Lab Sample ID: 400-134192-11

Date Collected: 02/14/17 11:32

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 05:59	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03729 MW-14

Lab Sample ID: 400-134192-12

Date Collected: 02/14/17 12:52

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 05:59	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX03730 MW-2

Lab Sample ID: 400-134192-13

Date Collected: 02/14/17 10:02

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03731 FB-3

Lab Sample ID: 400-134192-14

Date Collected: 02/14/17 10:30

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03732 MW-5

Lab Sample ID: 400-134192-15

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03733 MW-5 DUP

Lab Sample ID: 400-134192-16

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03734 MW-10

Lab Sample ID: 400-134192-17

Date Collected: 02/14/17 09:40

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03735 MW-7S

Lab Sample ID: 400-134192-18

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03736 MW-7D

Lab Sample ID: 400-134192-19

Date Collected: 02/14/17 12:13

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298629	03/20/17 15:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03737 MW-8S

Lab Sample ID: 400-134192-20

Date Collected: 02/14/17 13:20

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 06:00	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03738 FB-1

Lab Sample ID: 400-134192-21

Date Collected: 02/14/17 13:45

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03884 MW-12

Lab Sample ID: 400-134192-22

Date Collected: 02/15/17 09:25

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03885 FB-2

Lab Sample ID: 400-134192-23

Date Collected: 02/15/17 09:55

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03886 MW-13D

Lab Sample ID: 400-134192-24

Date Collected: 02/15/17 11:30

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX03887 MW-13S

Lab Sample ID: 400-134192-25

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:04	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03888 MW-13S DUP

Lab Sample ID: 400-134192-26

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:04	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:53	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03889 MW-8D

Lab Sample ID: 400-134192-27

Date Collected: 02/15/17 15:16

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:04	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:54	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Client Sample ID: AX03890 MW-9S

Lab Sample ID: 400-134192-28

Date Collected: 02/15/17 14:16

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Total/NA	Analysis	9315		1	298903	03/22/17 06:04	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Total/NA	Analysis	9320		1	298257	03/20/17 15:54	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX03891 MW-9S DISSOLVED

Lab Sample ID: 400-134192-29

Date Collected: 02/15/17 14:23

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			295124	02/28/17 14:21	MBC	TAL SL
Dissolved	Analysis	9315		1	298903	03/22/17 06:04	MLK	TAL SL
Dissolved	Prep	PrecSep_0			295127	02/28/17 15:01	MBC	TAL SL
Dissolved	Analysis	9320		1	298257	03/20/17 15:54	MLK	TAL SL
Dissolved	Analysis	Ra226_Ra228		1	299128	03/23/17 09:22	CAH	TAL SL

Client Sample ID: AX03892 MW-9D

Lab Sample ID: 400-134192-30

Date Collected: 02/15/17 15:30

Matrix: Water

Date Received: 02/21/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			295066	02/28/17 09:47	MBC	TAL SL
Total/NA	Analysis	9315		1	298901	03/22/17 08:13	MLK	TAL SL
Total/NA	Prep	PrecSep_0			295074	02/28/17 10:03	MBC	TAL SL
Total/NA	Analysis	9320		1	297616	03/14/17 11:14	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	299060	03/22/17 12:58	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 Miller

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Rad

Prep Batch: 295066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-30	AX03892 MW-9D	Total/NA	Water	PrecSep-21	
MB 160-295066/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-295066/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-134192-30 DU	AX03892 MW-9D	Total/NA	Water	PrecSep-21	

Prep Batch: 295074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-30	AX03892 MW-9D	Total/NA	Water	PrecSep_0	
MB 160-295074/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-295074/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-134192-30 DU	AX03892 MW-9D	Total/NA	Water	PrecSep_0	

Prep Batch: 295109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-1	AX03552 PZ-5	Total/NA	Water	PrecSep-21	
400-134192-2	AX03553 EB-1	Total/NA	Water	PrecSep-21	
400-134192-3	AX03554 MW-3D	Total/NA	Water	PrecSep-21	
400-134192-4	AX03555 MW-3S	Total/NA	Water	PrecSep-21	
400-134192-5	AX03556 MW-4	Total/NA	Water	PrecSep-21	
400-134192-6	AX03557 MW-6	Total/NA	Water	PrecSep-21	
400-134192-7	AX03558 MW-6 DUP	Total/NA	Water	PrecSep-21	
400-134192-8	AX03559 MW-11	Total/NA	Water	PrecSep-21	
400-134192-9	AX03560 MW-1	Total/NA	Water	PrecSep-21	
MB 160-295109/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-295109/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-295109/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 295115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-1	AX03552 PZ-5	Total/NA	Water	PrecSep_0	
400-134192-2	AX03553 EB-1	Total/NA	Water	PrecSep_0	
400-134192-3	AX03554 MW-3D	Total/NA	Water	PrecSep_0	
400-134192-4	AX03555 MW-3S	Total/NA	Water	PrecSep_0	
400-134192-5	AX03556 MW-4	Total/NA	Water	PrecSep_0	
400-134192-6	AX03557 MW-6	Total/NA	Water	PrecSep_0	
400-134192-7	AX03558 MW-6 DUP	Total/NA	Water	PrecSep_0	
400-134192-8	AX03559 MW-11	Total/NA	Water	PrecSep_0	
400-134192-9	AX03560 MW-1	Total/NA	Water	PrecSep_0	
MB 160-295115/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-295115/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-295115/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 295124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-10	AX03727 MW-15	Total/NA	Water	PrecSep-21	
400-134192-11	AX03728 MW-16	Total/NA	Water	PrecSep-21	
400-134192-12	AX03729 MW-14	Total/NA	Water	PrecSep-21	
400-134192-13	AX03730 MW-2	Total/NA	Water	PrecSep-21	
400-134192-14	AX03731 FB-3	Total/NA	Water	PrecSep-21	
400-134192-15	AX03732 MW-5	Total/NA	Water	PrecSep-21	
400-134192-16	AX03733 MW-5 DUP	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Rad (Continued)

Prep Batch: 295124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-17	AX03734 MW-10	Total/NA	Water	PrecSep-21	
400-134192-18	AX03735 MW-7S	Total/NA	Water	PrecSep-21	
400-134192-19	AX03736 MW-7D	Total/NA	Water	PrecSep-21	
400-134192-20	AX03737 MW-8S	Total/NA	Water	PrecSep-21	
400-134192-21	AX03738 FB-1	Total/NA	Water	PrecSep-21	
400-134192-22	AX03884 MW-12	Total/NA	Water	PrecSep-21	
400-134192-23	AX03885 FB-2	Total/NA	Water	PrecSep-21	
400-134192-24	AX03886 MW-13D	Total/NA	Water	PrecSep-21	
400-134192-25	AX03887 MW-13S	Total/NA	Water	PrecSep-21	
400-134192-26	AX03888 MW-13S DUP	Total/NA	Water	PrecSep-21	
400-134192-27	AX03889 MW-8D	Total/NA	Water	PrecSep-21	
400-134192-28	AX03890 MW-9S	Total/NA	Water	PrecSep-21	
400-134192-29	AX03891 MW-9S DISSOLVED	Dissolved	Water	PrecSep-21	
MB 160-295124/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-295124/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-134192-10 DU	AX03727 MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 295127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-10	AX03727 MW-15	Total/NA	Water	PrecSep_0	
400-134192-11	AX03728 MW-16	Total/NA	Water	PrecSep_0	
400-134192-12	AX03729 MW-14	Total/NA	Water	PrecSep_0	
400-134192-13	AX03730 MW-2	Total/NA	Water	PrecSep_0	
400-134192-14	AX03731 FB-3	Total/NA	Water	PrecSep_0	
400-134192-15	AX03732 MW-5	Total/NA	Water	PrecSep_0	
400-134192-16	AX03733 MW-5 DUP	Total/NA	Water	PrecSep_0	
400-134192-17	AX03734 MW-10	Total/NA	Water	PrecSep_0	
400-134192-18	AX03735 MW-7S	Total/NA	Water	PrecSep_0	
400-134192-19	AX03736 MW-7D	Total/NA	Water	PrecSep_0	
400-134192-20	AX03737 MW-8S	Total/NA	Water	PrecSep_0	
400-134192-21	AX03738 FB-1	Total/NA	Water	PrecSep_0	
400-134192-22	AX03884 MW-12	Total/NA	Water	PrecSep_0	
400-134192-23	AX03885 FB-2	Total/NA	Water	PrecSep_0	
400-134192-24	AX03886 MW-13D	Total/NA	Water	PrecSep_0	
400-134192-25	AX03887 MW-13S	Total/NA	Water	PrecSep_0	
400-134192-26	AX03888 MW-13S DUP	Total/NA	Water	PrecSep_0	
400-134192-27	AX03889 MW-8D	Total/NA	Water	PrecSep_0	
400-134192-28	AX03890 MW-9S	Total/NA	Water	PrecSep_0	
400-134192-29	AX03891 MW-9S DISSOLVED	Dissolved	Water	PrecSep_0	
MB 160-295127/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-295127/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-134192-10 DU	AX03727 MW-15	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-295066/1-A
Matrix: Water
Analysis Batch: 298901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295066

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.005137	U	0.0634	0.0634	1.00	0.124	pCi/L	02/28/17 09:47	03/22/17 08:13	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	90.0		40 - 110	02/28/17 09:47	03/22/17 08:13	1				

Lab Sample ID: LCS 160-295066/2-A
Matrix: Water
Analysis Batch: 298901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295066

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.569		1.02	1.00	0.130	pCi/L	84	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	89.4		40 - 110	02/28/17 09:47	03/22/17 08:13	1			

Lab Sample ID: 400-134192-30 DU
Matrix: Water
Analysis Batch: 298901

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA
Prep Batch: 295066

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0380	U	0.1242	U	0.111	1.00	0.169	pCi/L	0.44	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	88.2		40 - 110	02/28/17 12:54	03/22/17 05:51	1				

Lab Sample ID: MB 160-295109/1-A
Matrix: Water
Analysis Batch: 298902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295109

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07432	U	0.0761	0.0764	1.00	0.120	pCi/L	02/28/17 12:54	03/22/17 05:51	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	88.5		40 - 110	02/28/17 12:54	03/22/17 05:51	1				

Lab Sample ID: LCS 160-295109/2-A
Matrix: Water
Analysis Batch: 298902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295109

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	11.00		1.15	1.00	0.0909	pCi/L	97	68 - 137

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-295109/2-A
Matrix: Water
Analysis Batch: 298902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295109

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.5		40 - 110

Lab Sample ID: LCSD 160-295109/3-A
Matrix: Water
Analysis Batch: 298902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 295109

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.4	11.72		1.22	1.00	0.123	pCi/L	103	68 - 137	0.30	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	89.4		40 - 110

Lab Sample ID: MB 160-295124/1-A
Matrix: Water
Analysis Batch: 298901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295124

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.07538	U	0.137	0.137	1.00	0.242	pCi/L	02/28/17 14:21	03/22/17 05:59	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110	02/28/17 14:21	03/22/17 05:59	1

Lab Sample ID: LCS 160-295124/2-A
Matrix: Water
Analysis Batch: 298901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295124

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	11.70		1.35	1.00	0.246	pCi/L	103	68 - 137

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.3		40 - 110

Lab Sample ID: 400-134192-10 DU
Matrix: Water
Analysis Batch: 298901

Client Sample ID: AX03727 MW-15
Prep Type: Total/NA
Prep Batch: 295124

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.160	U	0.2896	U	0.247	1.00	0.366	pCi/L	0.29	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	64.3		40 - 110

QC Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-295074/1-A
Matrix: Water
Analysis Batch: 297616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295074

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.05393	U	0.206	0.206	1.00	0.380	pCi/L	02/28/17 10:03	03/14/17 11:14	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					02/28/17 10:03	03/14/17 11:14	1
Y Carrier	88.2		40 - 110					02/28/17 10:03	03/14/17 11:14	1

Lab Sample ID: LCS 160-295074/2-A
Matrix: Water
Analysis Batch: 297616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295074

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.7	14.69		1.59	1.00	0.439	pCi/L	107	56 - 140
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	89.4		40 - 110						
Y Carrier	88.6		40 - 110						

Lab Sample ID: 400-134192-30 DU
Matrix: Water
Analysis Batch: 297616

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA
Prep Batch: 295074

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.0153	U	0.009036	U	0.346	1.00	0.613	pCi/L	0.04	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	88.2		40 - 110							
Y Carrier	86.0		40 - 110							

Lab Sample ID: MB 160-295115/1-A
Matrix: Water
Analysis Batch: 297616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295115

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1259	U	0.208	0.208	1.00	0.394	pCi/L	02/28/17 13:38	03/14/17 15:49	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					02/28/17 13:38	03/14/17 15:49	1
Y Carrier	88.6		40 - 110					02/28/17 13:38	03/14/17 15:49	1

QC Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-295115/2-A
Matrix: Water
Analysis Batch: 297616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295115

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits												
Radium-228	13.7	14.49		1.56	1.00	0.378	pCi/L	106	56 - 140												
<table border="1" style="width: 100%;"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>88.5</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>89.0</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>										Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	88.5		40 - 110	Y Carrier	89.0		40 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																		
Ba Carrier	88.5		40 - 110																		
Y Carrier	89.0		40 - 110																		

Lab Sample ID: LCSD 160-295115/3-A
Matrix: Water
Analysis Batch: 297616

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 295115

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit												
Radium-228	13.7	14.73		1.59	1.00	0.443	pCi/L	107	56 - 140	0.08	1												
<table border="1" style="width: 100%;"> <thead> <tr> <th>Carrier</th> <th>LCSD %Yield</th> <th>LCSD Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>89.4</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>86.7</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>												Carrier	LCSD %Yield	LCSD Qualifier	Limits	Ba Carrier	89.4		40 - 110	Y Carrier	86.7		40 - 110
Carrier	LCSD %Yield	LCSD Qualifier	Limits																				
Ba Carrier	89.4		40 - 110																				
Y Carrier	86.7		40 - 110																				

Lab Sample ID: MB 160-295127/1-A
Matrix: Water
Analysis Batch: 298629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295127

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac																					
Radium-228	0.6160	U	0.457	0.461	1.00	0.724	pCi/L	02/28/17 15:01	03/20/17 15:38	1																					
<table border="1" style="width: 100%;"> <thead> <tr> <th>Carrier</th> <th>MB %Yield</th> <th>MB Qualifier</th> <th>Limits</th> <th>Prepared</th> <th>Analyzed</th> <th>Dil Fac</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>81.4</td> <td></td> <td>40 - 110</td> <td>02/28/17 15:01</td> <td>03/20/17 15:38</td> <td>1</td> </tr> <tr> <td>Y Carrier</td> <td>81.1</td> <td></td> <td>40 - 110</td> <td>02/28/17 15:01</td> <td>03/20/17 15:38</td> <td>1</td> </tr> </tbody> </table>											Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac	Ba Carrier	81.4		40 - 110	02/28/17 15:01	03/20/17 15:38	1	Y Carrier	81.1		40 - 110	02/28/17 15:01	03/20/17 15:38	1
Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac																									
Ba Carrier	81.4		40 - 110	02/28/17 15:01	03/20/17 15:38	1																									
Y Carrier	81.1		40 - 110	02/28/17 15:01	03/20/17 15:38	1																									

Lab Sample ID: LCS 160-295127/2-A
Matrix: Water
Analysis Batch: 298629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295127

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits												
Radium-228	18.3	21.38		2.30	1.00	0.635	pCi/L	117	56 - 140												
<table border="1" style="width: 100%;"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>87.3</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>83.0</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>										Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	87.3		40 - 110	Y Carrier	83.0		40 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																		
Ba Carrier	87.3		40 - 110																		
Y Carrier	83.0		40 - 110																		

QC Sample Results

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-134192-10 DU
Matrix: Water
Analysis Batch: 298629

Client Sample ID: AX03727 MW-15
Prep Type: Total/NA
Prep Batch: 295127

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.300	U	0.01843	U G	0.603	1.00	1.06	pCi/L	0.27	1

Carrier	%Yield	DU Qualifier	DU Limits
Ba Carrier	64.3		40 - 110
Y Carrier	74.0		40 - 110

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-134192-10 DU
Matrix: Water
Analysis Batch: 299060

Client Sample ID: AX03727 MW-15
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	0.459	U	0.3080	U	0.652	5.00	1.06	pCi/L	0.14	

Lab Sample ID: 400-134192-30 DU
Matrix: Water
Analysis Batch: 299060


Client Sample ID: AX03892 MW-9D
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	0.0228	U	0.1333	U	0.363	5.00	0.613	pCi/L	0.15	

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: 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@southemco.com Project Name: CCR SOW#: Miller Ash Pond (5)		Sampler: Nick Pitts, Ben Rothschadl, Jason Rouss Lab PM: Whitmire, Chyenne R E-Mail: chyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 1 of 3 Job #: 400-134192	
Due Date Requested: TAT Requested (days): Routine		Analysis Requested  400-134192 COC		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastotal, BT= tissue, A=air) Preservation Code		Field Filtered Sample (Yes or No) 9316_Ra226, 9320_Ra228, Ra226Ra228, GPPC		Total Number of Containers Special Instructions/Note: PZ-5 EB-1 (Equipment Blank) MW-3D MW-3S MW-4 MW-6 MW-6 Dup (Sample Duplicate) MW-11 MW-1 MW-15 MW-16 MW-14	
Sample Date Sample Time Sample Type Matrix Preservation Code		Field Filtered Sample (Yes or No) 9316_Ra226, 9320_Ra228, Ra226Ra228, GPPC		Total Number of Containers Special Instructions/Note: PZ-5 EB-1 (Equipment Blank) MW-3D MW-3S MW-4 MW-6 MW-6 Dup (Sample Duplicate) MW-11 MW-1 MW-15 MW-16 MW-14	
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		Date: 2/20/2017, 0615 Date/Time: 2/20/2017, 0615 Date/Time:		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 Archive For: Months	
Empty Kit Relinquished by: Relinquished by: Sarah Copeland Relinquished by: Relinquished by:		Date: Date/Time: 2/20/2017, 0615 Date/Time: Date/Time:		Method of Shipment: Date/Time: 2-20-17 16:00 Date/Time: Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



TestAmerica Pensacola
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: 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: sgcopelata@southernco.com Project Name: CCR Site: Miller Ash Pond (5)			Sampler: Nick Pitts, Ben Rothschild Lab P.M.: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Phone:			Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 2 of 3 Job #: 400-134192		
Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSOW#:			Analysis Requested 9315_R4226_9320_R4228_R4226R4228_GFP-C Field Filtered Sample (Yes/No) X Petrolim (MSP/Yes/No) X			Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arnicolor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Time, Acid)	Preservation Code	Total Number of Containers	Special Instructions/Note:	
AX03730	2/14/17	1002	G	Water		1	MW-2	
AX03731	2/14/17	1030	G	Water		1	FB-3 (Field Blank)	
AX03732	2/14/17	1135	G	Water		1	MW-5	
AX03733	2/14/17	1135	G	Water		1	MW-5 Dup (Sample Duplicate)	
AX03734	2/14/17	0940	G	Water		1	MW-10	
AX03735	2/14/17	1115	G	Water		1	MW-7S	
AX03736	2/14/17	1213	G	Water		1	MW-7D	
AX03737	2/14/17	1320	G	Water		1	MW-8S	
AX03738	2/14/17	1345	G	Water		1	FB-1 (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: I, II, III, IV, Other (specify)								
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: Sarah Copeland Date/Time: 2/20/2017; 08:15 Company: APC Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:								



TestAmerica Pensacola
 3355 McLemore Drive
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Alabama Power General Test Laboratory 744 County Rd 87 GSC #8 Calera State, Zip: AL, 35040 Phone: 205-664-6121 (Tel) Email: sgcopela@southernco.com Project Name: CCR Site: Miller Ash Pond (5)		Sampler: Jason Rouss, Ben Rothschild Phone: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Lab P/N: 400-56525-24537.1 Page: Page 3 of 3 Job #: 400-134927	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 40007143 SSOW#:		Analysis Requested			
Sample Identification AX03884 AX03885 AX03886 AX03887 AX03888 AX03889 AX03890 AX03891 AX03892		Sample Date 2/15/17 2/15/17 2/15/17 2/15/17 2/15/17 2/15/17 2/15/17 2/15/17		Sample Time 0925 0955 1130 1305 1305 1516 1416 1423 1530	
Sample Type (C=Comp, G=grab) G G G G G G G G		Matrix (W=water, S=solid, O=volatile, GFT=Gas, A=Air) Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) X X X X X X X X Y	
Preservation Code MW-12 FB-2 (Field Blank) MW-13D MW-13S MW-13S Dup (Sample Duplicate) MW-8D MW-9S MW-9S Dissolved MW-9D		Total Number of Containers MW-12 FB-2 (Field Blank) MW-13D MW-13S MW-13S Dup (Sample Duplicate) MW-8D MW-9S MW-9S Dissolved MW-9D		Special Instructions/Note: MW-12 FB-2 (Field Blank) MW-13D MW-13S MW-13S Dup (Sample Duplicate) MW-8D MW-9S MW-9S Dissolved MW-9D	
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, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: Sarah Copeland					
Relinquished by:					
Relinquished by:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Cooler Temperature(s) °C and Other Remarks:					



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-134192-1
SDG Number: Miller Ash Pond (5)

Login Number: 134192

List Number: 1

Creator: Siddoway, Benjamin

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	1.0°C, 1.1°C IR-2
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	



Certification Summary

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

TestAmerica Job ID: 400-134192-1
 SDG: Miller Ash Pond (5)

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 400-134192-1
SDG: Miller Ash Pond (5)

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-18
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - 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: 400-134192-2

TestAmerica Sample Delivery Group: Miller Ash Pond (5)

Client Project/Site: CCR Plant Miller

For:

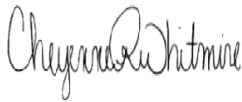
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

3/28/2017 5:45:44 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 Miller

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Job ID: 400-134192-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-134192-2

General Chemistry

Method(s) SM 4500 Cl- E: The following sample was diluted to bring the concentration of target analytes within the calibration range: AX03554 MW-3D (400-134192-3). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 345759 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 345760 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.

Comments

Samples AX03552 PZ-5 (400-134192-1), AX03553 EB-1 (400-134192-2), AX03554 MW-3D (400-134192-3), AX03555 MW-3S (400-134192-4), AX03556 MW-4 (400-134192-5), AX03557 MW-6 (400-134192-6), AX03558 MW-6 DUP (400-134192-7), AX03559 MW-11 (400-134192-8) and AX03560 MW-1 (400-134192-9) will be recollected for Sulfate.



Detection Summary

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03552 PZ-5

Lab Sample ID: 400-134192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	33		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.88		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AX03553 EB-1

Lab Sample ID: 400-134192-2

No Detections.

Client Sample ID: AX03554 MW-3D

Lab Sample ID: 400-134192-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	56		4.0	1.2	mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.29		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AX03555 MW-3S

Lab Sample ID: 400-134192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.27		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AX03556 MW-4

Lab Sample ID: 400-134192-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	46		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

Client Sample ID: AX03557 MW-6

Lab Sample ID: 400-134192-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28		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

Client Sample ID: AX03558 MW-6 DUP

Lab Sample ID: 400-134192-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29		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

Client Sample ID: AX03559 MW-11

Lab Sample ID: 400-134192-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.1		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

Client Sample ID: AX03560 MW-1

Lab Sample ID: 400-134192-9

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	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AX03727 MW-15

Lab Sample ID: 400-134192-10

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03727 MW-15 (Continued)

Lab Sample ID: 400-134192-10

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
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	68		15	4.2	mg/L	3		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03728 MW-16

Lab Sample ID: 400-134192-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	43		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	670		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03729 MW-14

Lab Sample ID: 400-134192-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		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	39		15	4.2	mg/L	3		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03730 MW-2

Lab Sample ID: 400-134192-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1500		300	84	mg/L	60		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03731 FB-3

Lab Sample ID: 400-134192-14

No Detections.

Client Sample ID: AX03732 MW-5

Lab Sample ID: 400-134192-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	44		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.31		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	950		230	63	mg/L	45		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03733 MW-5 DUP

Lab Sample ID: 400-134192-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	44		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	930		230	63	mg/L	45		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03734 MW-10

Lab Sample ID: 400-134192-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.34		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	670		150	42	mg/L	30		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 Miller

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03735 MW-7S

Lab Sample ID: 400-134192-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24		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	250		60	17	mg/L	12		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03736 MW-7D

Lab Sample ID: 400-134192-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		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	320		90	25	mg/L	18		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03737 MW-8S

Lab Sample ID: 400-134192-20

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	0.36		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	460	F1	110	31	mg/L	22		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03738 FB-1

Lab Sample ID: 400-134192-21

No Detections.

Client Sample ID: AX03884 MW-12

Lab Sample ID: 400-134192-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.59		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	860		180	49	mg/L	35		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03885 FB-2

Lab Sample ID: 400-134192-23

No Detections.

Client Sample ID: AX03886 MW-13D

Lab Sample ID: 400-134192-24

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	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	82		30	8.4	mg/L	6		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03887 MW-13S

Lab Sample ID: 400-134192-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.060	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		30	8.4	mg/L	6		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03888 MW-13S DUP

Lab Sample ID: 400-134192-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.4		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 Miller

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03888 MW-13S DUP (Continued)

Lab Sample ID: 400-134192-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.060	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		30	8.4	mg/L	6		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03889 MW-8D

Lab Sample ID: 400-134192-27

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	0.24		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	420		75	21	mg/L	15		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03890 MW-9S

Lab Sample ID: 400-134192-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.7		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	86		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03891 MW-9S DISSOLVED

Lab Sample ID: 400-134192-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.6		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	85		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX03892 MW-9D

Lab Sample ID: 400-134192-30

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	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	460	F1	100	28	mg/L	20		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 Miller

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

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 Miller

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-134192-1	AX03552 PZ-5	Water	02/13/17 14:17	03/08/17 12:34
400-134192-2	AX03553 EB-1	Water	02/13/17 16:20	03/08/17 12:34
400-134192-3	AX03554 MW-3D	Water	02/13/17 11:20	03/08/17 12:34
400-134192-4	AX03555 MW-3S	Water	02/13/17 12:35	03/08/17 12:34
400-134192-5	AX03556 MW-4	Water	02/13/17 13:50	03/08/17 12:34
400-134192-6	AX03557 MW-6	Water	02/13/17 15:00	03/08/17 12:34
400-134192-7	AX03558 MW-6 DUP	Water	02/13/17 15:00	03/08/17 12:34
400-134192-8	AX03559 MW-11	Water	02/13/17 12:42	03/08/17 12:34
400-134192-9	AX03560 MW-1	Water	02/13/17 15:55	03/08/17 12:34
400-134192-10	AX03727 MW-15	Water	02/14/17 10:12	03/08/17 12:34
400-134192-11	AX03728 MW-16	Water	02/14/17 11:32	03/08/17 12:34
400-134192-12	AX03729 MW-14	Water	02/14/17 12:52	03/08/17 12:34
400-134192-13	AX03730 MW-2	Water	02/14/17 10:02	03/08/17 12:34
400-134192-14	AX03731 FB-3	Water	02/14/17 10:30	03/08/17 12:34
400-134192-15	AX03732 MW-5	Water	02/14/17 11:35	03/08/17 12:34
400-134192-16	AX03733 MW-5 DUP	Water	02/14/17 11:35	03/08/17 12:34
400-134192-17	AX03734 MW-10	Water	02/14/17 09:40	03/08/17 12:34
400-134192-18	AX03735 MW-7S	Water	02/14/17 11:15	03/08/17 12:34
400-134192-19	AX03736 MW-7D	Water	02/14/17 12:13	03/08/17 12:34
400-134192-20	AX03737 MW-8S	Water	02/14/17 13:20	03/08/17 12:34
400-134192-21	AX03738 FB-1	Water	02/14/17 13:45	03/08/17 12:34
400-134192-22	AX03884 MW-12	Water	02/15/17 09:25	03/08/17 12:34
400-134192-23	AX03885 FB-2	Water	02/15/17 09:55	03/08/17 12:34
400-134192-24	AX03886 MW-13D	Water	02/15/17 11:30	03/08/17 12:34
400-134192-25	AX03887 MW-13S	Water	02/15/17 13:05	03/08/17 12:34
400-134192-26	AX03888 MW-13S DUP	Water	02/15/17 13:05	03/08/17 12:34
400-134192-27	AX03889 MW-8D	Water	02/15/17 15:16	03/08/17 12:34
400-134192-28	AX03890 MW-9S	Water	02/15/17 14:16	03/08/17 12:34
400-134192-29	AX03891 MW-9S DISSOLVED	Water	02/15/17 14:23	03/08/17 12:34
400-134192-30	AX03892 MW-9D	Water	02/15/17 15:30	03/08/17 12:34

Client Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03552 PZ-5

Lab Sample ID: 400-134192-1

Date Collected: 02/13/17 14:17

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.88		0.10	0.032	mg/L			03/09/17 14:16	1

Client Sample ID: AX03553 EB-1

Lab Sample ID: 400-134192-2

Date Collected: 02/13/17 16:20

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	<0.032		0.10	0.032	mg/L			03/09/17 14:19	1

Client Sample ID: AX03554 MW-3D

Lab Sample ID: 400-134192-3

Date Collected: 02/13/17 11:20

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56		4.0	1.2	mg/L			03/10/17 15:27	2
Fluoride	0.29		0.10	0.032	mg/L			03/09/17 14:21	1

Client Sample ID: AX03555 MW-3S

Lab Sample ID: 400-134192-4

Date Collected: 02/13/17 12:35

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.27		0.10	0.032	mg/L			03/09/17 14:31	1

Client Sample ID: AX03556 MW-4

Lab Sample ID: 400-134192-5

Date Collected: 02/13/17 13:50

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.28		0.10	0.032	mg/L			03/09/17 14:34	1

Client Sample ID: AX03557 MW-6

Lab Sample ID: 400-134192-6

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.080	J	0.10	0.032	mg/L			03/09/17 14:36	1

Client Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03558 MW-6 DUP

Lab Sample ID: 400-134192-7

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.070	J	0.10	0.032	mg/L			03/09/17 14:41	1

Client Sample ID: AX03559 MW-11

Lab Sample ID: 400-134192-8

Date Collected: 02/13/17 12:42

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.13		0.10	0.032	mg/L			03/09/17 14:57	1

Client Sample ID: AX03560 MW-1

Lab Sample ID: 400-134192-9

Date Collected: 02/13/17 15:55

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			03/10/17 14:39	1
Fluoride	0.13		0.10	0.032	mg/L			03/09/17 15:02	1

Client Sample ID: AX03727 MW-15

Lab Sample ID: 400-134192-10

Date Collected: 02/14/17 10:12

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		2.0	0.60	mg/L			03/10/17 14:40	1
Fluoride	0.10		0.10	0.032	mg/L			03/09/17 14:02	1
Sulfate	68		15	4.2	mg/L			03/14/17 14:24	3

Client Sample ID: AX03728 MW-16

Lab Sample ID: 400-134192-11

Date Collected: 02/14/17 11:32

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		2.0	0.60	mg/L			03/10/17 14:48	1
Fluoride	0.14		0.10	0.032	mg/L			03/09/17 15:06	1
Sulfate	670		150	42	mg/L			03/14/17 14:58	30

Client Sample ID: AX03729 MW-14

Lab Sample ID: 400-134192-12

Date Collected: 02/14/17 12:52

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		2.0	0.60	mg/L			03/10/17 14:48	1
Fluoride	0.17		0.10	0.032	mg/L			03/09/17 15:08	1
Sulfate	39		15	4.2	mg/L			03/14/17 14:58	3

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03730 MW-2

Lab Sample ID: 400-134192-13

Date Collected: 02/14/17 10:02

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	0.050	J	0.10	0.032	mg/L			03/09/17 15:10	1
Sulfate	1500		300	84	mg/L			03/14/17 14:58	60

Client Sample ID: AX03731 FB-3

Lab Sample ID: 400-134192-14

Date Collected: 02/14/17 10:30

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	<0.032		0.10	0.032	mg/L			03/09/17 15:12	1
Sulfate	<2.8		10	2.8	mg/L			03/14/17 14:58	2

Client Sample ID: AX03732 MW-5

Lab Sample ID: 400-134192-15

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	0.31		0.10	0.032	mg/L			03/09/17 15:14	1
Sulfate	950		230	63	mg/L			03/14/17 15:01	45

Client Sample ID: AX03733 MW-5 DUP

Lab Sample ID: 400-134192-16

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	0.28		0.10	0.032	mg/L			03/09/17 15:16	1
Sulfate	930		230	63	mg/L			03/14/17 15:01	45

Client Sample ID: AX03734 MW-10

Lab Sample ID: 400-134192-17

Date Collected: 02/14/17 09:40

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	0.34		0.10	0.032	mg/L			03/09/17 17:36	1
Sulfate	670		150	42	mg/L			03/14/17 15:01	30

Client Sample ID: AX03735 MW-7S

Lab Sample ID: 400-134192-18

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		2.0	0.60	mg/L			03/10/17 15:26	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03735 MW-7S

Lab Sample ID: 400-134192-18

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.17		0.10	0.032	mg/L			03/09/17 17:38	1
Sulfate	250		60	17	mg/L			03/14/17 15:01	12

Client Sample ID: AX03736 MW-7D

Lab Sample ID: 400-134192-19

Date Collected: 02/14/17 12:13

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	0.070	J	0.10	0.032	mg/L			03/09/17 17:40	1
Sulfate	320		90	25	mg/L			03/14/17 15:32	18

Client Sample ID: AX03737 MW-8S

Lab Sample ID: 400-134192-20

Date Collected: 02/14/17 13:20

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			03/10/17 15:26	1
Fluoride	0.36		0.10	0.032	mg/L			03/09/17 17:30	1
Sulfate	460	F1	110	31	mg/L			03/14/17 15:35	22

Client Sample ID: AX03738 FB-1

Lab Sample ID: 400-134192-21

Date Collected: 02/14/17 13:45

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/09/17 17:43	1
Sulfate	<1.4		5.0	1.4	mg/L			03/14/17 16:19	1

Client Sample ID: AX03884 MW-12

Lab Sample ID: 400-134192-22

Date Collected: 02/15/17 09:25

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.59		0.10	0.032	mg/L			03/09/17 17:45	1
Sulfate	860		180	49	mg/L			03/14/17 16:57	35

Client Sample ID: AX03885 FB-2

Lab Sample ID: 400-134192-23

Date Collected: 02/15/17 09:55

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/09/17 17:46	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03885 FB-2

Lab Sample ID: 400-134192-23

Date Collected: 02/15/17 09:55

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			03/14/17 16:19	1

Client Sample ID: AX03886 MW-13D

Lab Sample ID: 400-134192-24

Date Collected: 02/15/17 11:30

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.10		0.10	0.032	mg/L			03/09/17 17:48	1
Sulfate	82		30	8.4	mg/L			03/14/17 16:46	6

Client Sample ID: AX03887 MW-13S

Lab Sample ID: 400-134192-25

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.060	J	0.10	0.032	mg/L			03/09/17 18:12	1
Sulfate	110		30	8.4	mg/L			03/14/17 16:46	6

Client Sample ID: AX03888 MW-13S DUP

Lab Sample ID: 400-134192-26

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.060	J	0.10	0.032	mg/L			03/09/17 18:25	1
Sulfate	110		30	8.4	mg/L			03/14/17 16:46	6

Client Sample ID: AX03889 MW-8D

Lab Sample ID: 400-134192-27

Date Collected: 02/15/17 15:16

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.24		0.10	0.032	mg/L			03/09/17 18:27	1
Sulfate	420		75	21	mg/L			03/14/17 17:00	15

Client Sample ID: AX03890 MW-9S

Lab Sample ID: 400-134192-28

Date Collected: 02/15/17 14:16

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.17		0.10	0.032	mg/L			03/09/17 18:29	1
Sulfate	86		25	7.0	mg/L			03/14/17 16:49	5

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03891 MW-9S DISSOLVED

Lab Sample ID: 400-134192-29

Date Collected: 02/15/17 14:23

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.17		0.10	0.032	mg/L			03/09/17 18:34	1
Sulfate	85		25	7.0	mg/L			03/14/17 16:49	5

Client Sample ID: AX03892 MW-9D

Lab Sample ID: 400-134192-30

Date Collected: 02/15/17 15:30

Matrix: Water

Date Received: 03/08/17 12:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			03/10/17 18:37	1
Fluoride	0.11		0.10	0.032	mg/L			03/09/17 18:16	1
Sulfate	460	F1	100	28	mg/L			03/14/17 16:55	20

Definitions/Glossary

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03552 PZ-5

Lab Sample ID: 400-134192-1

Date Collected: 02/13/17 14:17

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:16	SLT	TAL PEN

Client Sample ID: AX03553 EB-1

Lab Sample ID: 400-134192-2

Date Collected: 02/13/17 16:20

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:19	SLT	TAL PEN

Client Sample ID: AX03554 MW-3D

Lab Sample ID: 400-134192-3

Date Collected: 02/13/17 11:20

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	345383	03/10/17 15:27	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:21	SLT	TAL PEN

Client Sample ID: AX03555 MW-3S

Lab Sample ID: 400-134192-4

Date Collected: 02/13/17 12:35

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:31	SLT	TAL PEN

Client Sample ID: AX03556 MW-4

Lab Sample ID: 400-134192-5

Date Collected: 02/13/17 13:50

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:34	SLT	TAL PEN

Client Sample ID: AX03557 MW-6

Lab Sample ID: 400-134192-6

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 14:39	BJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Client Sample ID: AX03557 MW-6

Lab Sample ID: 400-134192-6

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:36	SLT	TAL PEN

Client Sample ID: AX03558 MW-6 DUP

Lab Sample ID: 400-134192-7

Date Collected: 02/13/17 15:00

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:41	SLT	TAL PEN

Client Sample ID: AX03559 MW-11

Lab Sample ID: 400-134192-8

Date Collected: 02/13/17 12:42

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:57	SLT	TAL PEN

Client Sample ID: AX03560 MW-1

Lab Sample ID: 400-134192-9

Date Collected: 02/13/17 15:55

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 14:39	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:02	SLT	TAL PEN

Client Sample ID: AX03727 MW-15

Lab Sample ID: 400-134192-10

Date Collected: 02/14/17 10:12

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 14:40	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 14:02	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		3	345759	03/14/17 14:24	CLM	TAL PEN

Client Sample ID: AX03728 MW-16

Lab Sample ID: 400-134192-11

Date Collected: 02/14/17 11:32

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 14:48	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03728 MW-16

Lab Sample ID: 400-134192-11

Date Collected: 02/14/17 11:32

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:06	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	345759	03/14/17 14:58	CLM	TAL PEN

Client Sample ID: AX03729 MW-14

Lab Sample ID: 400-134192-12

Date Collected: 02/14/17 12:52

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		3	345759	03/14/17 14:58	CLM	TAL PEN

Client Sample ID: AX03730 MW-2

Lab Sample ID: 400-134192-13

Date Collected: 02/14/17 10:02

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:10	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		60	345759	03/14/17 14:58	CLM	TAL PEN

Client Sample ID: AX03731 FB-3

Lab Sample ID: 400-134192-14

Date Collected: 02/14/17 10:30

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	345759	03/14/17 14:58	CLM	TAL PEN

Client Sample ID: AX03732 MW-5

Lab Sample ID: 400-134192-15

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		45	345759	03/14/17 15:01	CLM	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03733 MW-5 DUP

Lab Sample ID: 400-134192-16

Date Collected: 02/14/17 11:35

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345190	03/09/17 15:16	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		45	345759	03/14/17 15:01	CLM	TAL PEN

Client Sample ID: AX03734 MW-10

Lab Sample ID: 400-134192-17

Date Collected: 02/14/17 09:40

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	345759	03/14/17 15:01	CLM	TAL PEN

Client Sample ID: AX03735 MW-7S

Lab Sample ID: 400-134192-18

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:38	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		12	345759	03/14/17 15:01	CLM	TAL PEN

Client Sample ID: AX03736 MW-7D

Lab Sample ID: 400-134192-19

Date Collected: 02/14/17 12:13

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:40	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		18	345759	03/14/17 15:32	CLM	TAL PEN

Client Sample ID: AX03737 MW-8S

Lab Sample ID: 400-134192-20

Date Collected: 02/14/17 13:20

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345383	03/10/17 15:26	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:30	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		22	345759	03/14/17 15:35	CLM	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03738 FB-1

Lab Sample ID: 400-134192-21

Date Collected: 02/14/17 13:45

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:43	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	345760	03/14/17 16:19	CLM	TAL PEN

Client Sample ID: AX03884 MW-12

Lab Sample ID: 400-134192-22

Date Collected: 02/15/17 09:25

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	345760	03/14/17 16:57	CLM	TAL PEN

Client Sample ID: AX03885 FB-2

Lab Sample ID: 400-134192-23

Date Collected: 02/15/17 09:55

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:46	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	345760	03/14/17 16:19	CLM	TAL PEN

Client Sample ID: AX03886 MW-13D

Lab Sample ID: 400-134192-24

Date Collected: 02/15/17 11:30

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 17:48	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		6	345760	03/14/17 16:46	CLM	TAL PEN

Client Sample ID: AX03887 MW-13S

Lab Sample ID: 400-134192-25

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 18:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		6	345760	03/14/17 16:46	CLM	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

Client Sample ID: AX03888 MW-13S DUP

Lab Sample ID: 400-134192-26

Date Collected: 02/15/17 13:05

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 18:25	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		6	345760	03/14/17 16:46	CLM	TAL PEN

Client Sample ID: AX03889 MW-8D

Lab Sample ID: 400-134192-27

Date Collected: 02/15/17 15:16

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 18:27	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		15	345760	03/14/17 17:00	CLM	TAL PEN

Client Sample ID: AX03890 MW-9S

Lab Sample ID: 400-134192-28

Date Collected: 02/15/17 14:16

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 18:29	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	345760	03/14/17 16:49	CLM	TAL PEN

Client Sample ID: AX03891 MW-9S DISSOLVED

Lab Sample ID: 400-134192-29

Date Collected: 02/15/17 14:23

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 18:34	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	345760	03/14/17 16:49	CLM	TAL PEN

Client Sample ID: AX03892 MW-9D

Lab Sample ID: 400-134192-30

Date Collected: 02/15/17 15:30

Matrix: Water

Date Received: 03/08/17 12:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	345385	03/10/17 18:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	345224	03/09/17 18:16	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	345760	03/14/17 16:55	CLM	TAL PEN

Laboratory References:

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

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

General Chemistry

Analysis Batch: 345190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-1	AX03552 PZ-5	Total/NA	Water	SM 4500 F C	
400-134192-2	AX03553 EB-1	Total/NA	Water	SM 4500 F C	
400-134192-3	AX03554 MW-3D	Total/NA	Water	SM 4500 F C	
400-134192-4	AX03555 MW-3S	Total/NA	Water	SM 4500 F C	
400-134192-5	AX03556 MW-4	Total/NA	Water	SM 4500 F C	
400-134192-6	AX03557 MW-6	Total/NA	Water	SM 4500 F C	
400-134192-7	AX03558 MW-6 DUP	Total/NA	Water	SM 4500 F C	
400-134192-8	AX03559 MW-11	Total/NA	Water	SM 4500 F C	
400-134192-9	AX03560 MW-1	Total/NA	Water	SM 4500 F C	
400-134192-10	AX03727 MW-15	Total/NA	Water	SM 4500 F C	
400-134192-11	AX03728 MW-16	Total/NA	Water	SM 4500 F C	
400-134192-12	AX03729 MW-14	Total/NA	Water	SM 4500 F C	
400-134192-13	AX03730 MW-2	Total/NA	Water	SM 4500 F C	
400-134192-14	AX03731 FB-3	Total/NA	Water	SM 4500 F C	
400-134192-15	AX03732 MW-5	Total/NA	Water	SM 4500 F C	
400-134192-16	AX03733 MW-5 DUP	Total/NA	Water	SM 4500 F C	
MB 400-345190/1	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-345190/2	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-134192-10 MS	AX03727 MW-15	Total/NA	Water	SM 4500 F C	
400-134192-10MSD	AX03727 MW-15	Total/NA	Water	SM 4500 F C	
400-134192-8 DU	AX03559 MW-11	Total/NA	Water	SM 4500 F C	

Analysis Batch: 345224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-17	AX03734 MW-10	Total/NA	Water	SM 4500 F C	
400-134192-18	AX03735 MW-7S	Total/NA	Water	SM 4500 F C	
400-134192-19	AX03736 MW-7D	Total/NA	Water	SM 4500 F C	
400-134192-20	AX03737 MW-8S	Total/NA	Water	SM 4500 F C	
400-134192-21	AX03738 FB-1	Total/NA	Water	SM 4500 F C	
400-134192-22	AX03884 MW-12	Total/NA	Water	SM 4500 F C	
400-134192-23	AX03885 FB-2	Total/NA	Water	SM 4500 F C	
400-134192-24	AX03886 MW-13D	Total/NA	Water	SM 4500 F C	
400-134192-25	AX03887 MW-13S	Total/NA	Water	SM 4500 F C	
400-134192-26	AX03888 MW-13S DUP	Total/NA	Water	SM 4500 F C	
400-134192-27	AX03889 MW-8D	Total/NA	Water	SM 4500 F C	
400-134192-28	AX03890 MW-9S	Total/NA	Water	SM 4500 F C	
400-134192-29	AX03891 MW-9S DISSOLVED	Total/NA	Water	SM 4500 F C	
400-134192-30	AX03892 MW-9D	Total/NA	Water	SM 4500 F C	
MB 400-345224/15	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-345224/14	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-134192-20 MS	AX03737 MW-8S	Total/NA	Water	SM 4500 F C	
400-134192-20 MSD	AX03737 MW-8S	Total/NA	Water	SM 4500 F C	
400-134192-30 MS	AX03892 MW-9D	Total/NA	Water	SM 4500 F C	
400-134192-30 MSD	AX03892 MW-9D	Total/NA	Water	SM 4500 F C	
400-134192-25 DU	AX03887 MW-13S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 345383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-1	AX03552 PZ-5	Total/NA	Water	SM 4500 CI- E	
400-134192-2	AX03553 EB-1	Total/NA	Water	SM 4500 CI- E	
400-134192-3	AX03554 MW-3D	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

General Chemistry (Continued)

Analysis Batch: 345383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-4	AX03555 MW-3S	Total/NA	Water	SM 4500 Cl- E	
400-134192-5	AX03556 MW-4	Total/NA	Water	SM 4500 Cl- E	
400-134192-6	AX03557 MW-6	Total/NA	Water	SM 4500 Cl- E	
400-134192-7	AX03558 MW-6 DUP	Total/NA	Water	SM 4500 Cl- E	
400-134192-8	AX03559 MW-11	Total/NA	Water	SM 4500 Cl- E	
400-134192-9	AX03560 MW-1	Total/NA	Water	SM 4500 Cl- E	
400-134192-10	AX03727 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-134192-11	AX03728 MW-16	Total/NA	Water	SM 4500 Cl- E	
400-134192-12	AX03729 MW-14	Total/NA	Water	SM 4500 Cl- E	
400-134192-13	AX03730 MW-2	Total/NA	Water	SM 4500 Cl- E	
400-134192-14	AX03731 FB-3	Total/NA	Water	SM 4500 Cl- E	
400-134192-15	AX03732 MW-5	Total/NA	Water	SM 4500 Cl- E	
400-134192-16	AX03733 MW-5 DUP	Total/NA	Water	SM 4500 Cl- E	
400-134192-17	AX03734 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-134192-18	AX03735 MW-7S	Total/NA	Water	SM 4500 Cl- E	
400-134192-19	AX03736 MW-7D	Total/NA	Water	SM 4500 Cl- E	
400-134192-20	AX03737 MW-8S	Total/NA	Water	SM 4500 Cl- E	
MB 400-345383/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-345383/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-345383/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-134192-10 MS	AX03727 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-134192-10MSD	AX03727 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-134192-20 MS	AX03737 MW-8S	Total/NA	Water	SM 4500 Cl- E	
400-134192-20 MSD	AX03737 MW-8S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 345385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-21	AX03738 FB-1	Total/NA	Water	SM 4500 Cl- E	
400-134192-22	AX03884 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-134192-23	AX03885 FB-2	Total/NA	Water	SM 4500 Cl- E	
400-134192-24	AX03886 MW-13D	Total/NA	Water	SM 4500 Cl- E	
400-134192-25	AX03887 MW-13S	Total/NA	Water	SM 4500 Cl- E	
400-134192-26	AX03888 MW-13S DUP	Total/NA	Water	SM 4500 Cl- E	
400-134192-27	AX03889 MW-8D	Total/NA	Water	SM 4500 Cl- E	
400-134192-28	AX03890 MW-9S	Total/NA	Water	SM 4500 Cl- E	
400-134192-29	AX03891 MW-9S DISSOLVED	Total/NA	Water	SM 4500 Cl- E	
400-134192-30	AX03892 MW-9D	Total/NA	Water	SM 4500 Cl- E	
MB 400-345385/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-345385/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-345385/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-134192-30 MS	AX03892 MW-9D	Total/NA	Water	SM 4500 Cl- E	
400-134192-30 MSD	AX03892 MW-9D	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 345759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-10	AX03727 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-134192-11	AX03728 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-134192-12	AX03729 MW-14	Total/NA	Water	SM 4500 SO4 E	
400-134192-13	AX03730 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-134192-14	AX03731 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-134192-15	AX03732 MW-5	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-134192-2
SDG: Miller Ash Pond (5)

General Chemistry (Continued)

Analysis Batch: 345759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-16	AX03733 MW-5 DUP	Total/NA	Water	SM 4500 SO4 E	
400-134192-17	AX03734 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-134192-18	AX03735 MW-7S	Total/NA	Water	SM 4500 SO4 E	
400-134192-19	AX03736 MW-7D	Total/NA	Water	SM 4500 SO4 E	
400-134192-20	AX03737 MW-8S	Total/NA	Water	SM 4500 SO4 E	
MRL 400-345759/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-134192-10 MS	AX03727 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-134192-10MSD	AX03727 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-134192-20 MS	AX03737 MW-8S	Total/NA	Water	SM 4500 SO4 E	
400-134192-20 MSD	AX03737 MW-8S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 345760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134192-21	AX03738 FB-1	Total/NA	Water	SM 4500 SO4 E	
400-134192-22	AX03884 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-134192-23	AX03885 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-134192-24	AX03886 MW-13D	Total/NA	Water	SM 4500 SO4 E	
400-134192-25	AX03887 MW-13S	Total/NA	Water	SM 4500 SO4 E	
400-134192-26	AX03888 MW-13S DUP	Total/NA	Water	SM 4500 SO4 E	
400-134192-27	AX03889 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-134192-28	AX03890 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-134192-29	AX03891 MW-9S DISSOLVED	Total/NA	Water	SM 4500 SO4 E	
400-134192-30	AX03892 MW-9D	Total/NA	Water	SM 4500 SO4 E	
MB 400-345760/73	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-345760/74	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-345760/72	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-134192-30 MS	AX03892 MW-9D	Total/NA	Water	SM 4500 SO4 E	
400-134192-30 MSD	AX03892 MW-9D	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-345383/6
Matrix: Water
Analysis Batch: 345383

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			03/10/17 13:22	1

Lab Sample ID: LCS 400-345383/7
Matrix: Water
Analysis Batch: 345383

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	30.1		mg/L		100	90 - 110

Lab Sample ID: MRL 400-345383/3
Matrix: Water
Analysis Batch: 345383

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	2.20		mg/L		110	50 - 150

Lab Sample ID: 400-134192-10 MS
Matrix: Water
Analysis Batch: 345383

Client Sample ID: AX03727 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20		10.0	29.1		mg/L		90	73 - 120

Lab Sample ID: 400-134192-10MSD
Matrix: Water
Analysis Batch: 345383

Client Sample ID: AX03727 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	20		10.0	29.1		mg/L					

Lab Sample ID: 400-134192-20 MS
Matrix: Water
Analysis Batch: 345383

Client Sample ID: AX03737 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14		10.0	24.0		mg/L		99	73 - 120

Lab Sample ID: 400-134192-20 MSD
Matrix: Water
Analysis Batch: 345383

Client Sample ID: AX03737 MW-8S
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	23.9		mg/L		98	73 - 120	1	8

Lab Sample ID: MB 400-345385/6
Matrix: Water
Analysis Batch: 345385

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			03/10/17 18:07	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Lab Sample ID: LCS 400-345385/7
Matrix: Water
Analysis Batch: 345385

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	31.6		mg/L		105	90 - 110

Lab Sample ID: MRL 400-345385/3
Matrix: Water
Analysis Batch: 345385

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	2.32		mg/L		116	50 - 150

Lab Sample ID: 400-134192-30 MS
Matrix: Water
Analysis Batch: 345385

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	13		10.0	22.9		mg/L		103	73 - 120

Lab Sample ID: 400-134192-30 MSD
Matrix: Water
Analysis Batch: 345385

Client Sample ID: AX03892 MW-9D
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	22.7		mg/L		102	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-345190/1
Matrix: Water
Analysis Batch: 345190

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			03/09/17 13:54	1

Lab Sample ID: LCS 400-345190/2
Matrix: Water
Analysis Batch: 345190

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	4.05		mg/L		101	90 - 110

Lab Sample ID: 400-134192-10 MS
Matrix: Water
Analysis Batch: 345190

Client Sample ID: AX03727 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.10		1.00	1.12		mg/L		102	75 - 125

QC Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-134192-10MSD
Matrix: Water
Analysis Batch: 345190

Client Sample ID: AX03727 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
Fluoride	0.10		1.00	1.12		mg/L		102	75 - 125	0	4

Lab Sample ID: 400-134192-8 DU
Matrix: Water
Analysis Batch: 345190

Client Sample ID: AX03559 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.13		0.130		mg/L		0	4

Lab Sample ID: MB 400-345224/15
Matrix: Water
Analysis Batch: 345224

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			03/09/17 17:15	1

Lab Sample ID: LCS 400-345224/14
Matrix: Water
Analysis Batch: 345224

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	3.67		mg/L		92	90 - 110

Lab Sample ID: 400-134192-20 MS
Matrix: Water
Analysis Batch: 345224

Client Sample ID: AX03737 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.36		1.00	1.33		mg/L		97	75 - 125

Lab Sample ID: 400-134192-20 MSD
Matrix: Water
Analysis Batch: 345224

Client Sample ID: AX03737 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.36		1.00	1.31		mg/L		95	75 - 125	2	4

Lab Sample ID: 400-134192-30 MS
Matrix: Water
Analysis Batch: 345224

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.11		1.00	1.02		mg/L		91	75 - 125

Lab Sample ID: 400-134192-30 MSD
Matrix: Water
Analysis Batch: 345224

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.11		1.00	1.00		mg/L		89	75 - 125	2	4

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Lab Sample ID: 400-134192-25 DU
Matrix: Water
Analysis Batch: 345224

Client Sample ID: AX03887 MW-13S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.060	J	0.0600	J	mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MRL 400-345759/3
Matrix: Water
Analysis Batch: 345759

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	4.39	J	mg/L		88	50 - 150

Lab Sample ID: 400-134192-10 MS
Matrix: Water
Analysis Batch: 345759

Client Sample ID: AX03727 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	68		260	515	F1	mg/L		172	77 - 128

Lab Sample ID: 400-134192-10MSD
Matrix: Water
Analysis Batch: 345759

Client Sample ID: AX03727 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	68		260	518	F1	mg/L		173	77 - 128	1	5

Lab Sample ID: 400-134192-20 MS
Matrix: Water
Analysis Batch: 345759

Client Sample ID: AX03737 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	460	F1	220	461	F1	mg/L		-1	77 - 128

Lab Sample ID: 400-134192-20 MSD
Matrix: Water
Analysis Batch: 345759

Client Sample ID: AX03737 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	460	F1	220	459	F1	mg/L		-2	77 - 128	0	5

Lab Sample ID: MB 400-345760/73
Matrix: Water
Analysis Batch: 345760

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			03/14/17 16:00	1

QC Sample Results

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-345760/74
Matrix: Water
Analysis Batch: 345760

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 400-345760/72
Matrix: Water
Analysis Batch: 345760

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	4.47	J	mg/L		89	50 - 150

Lab Sample ID: 400-134192-30 MS
Matrix: Water
Analysis Batch: 345760

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	460	F1	200	460	F1	mg/L		-2	77 - 128

Lab Sample ID: 400-134192-30 MSD
Matrix: Water
Analysis Batch: 345760

Client Sample ID: AX03892 MW-9D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	460	F1	200	456	F1	mg/L		-4	77 - 128	1	5

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information 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: scopelae@southernco.com Project #: 40007143 COR Site: Miller Ash Pond (2)		Lab P/N: Whitfire, Cheyenne R E-Mail: cheyenne.whitfire@testamericainc.com GOC No: 400-56525-24537.1 Page: Page 1 of 3 Job #: 400-134192	
Due Date Requested: TAT Requested (days): RUSH (see email)		Carrier/Tracking No:	
Sample Date: 2/13/17 Sample Time: 1417 Sample Type (C-comp, G-grab): G Matrix (Inorganic, Metals, Organic, Acid): Water Preservation Code: PZ-5		Analysis Requested:	
Sample Identification: AX03552 AX03553 AX03554 AX03555 AX03556 AX03557 AX03558 AX03559 AX03560 AX03727 AX03728 AX03729		Total Number of Containers: 1 Special Instructions/Note:	
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, 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: Sarah Copeland Date/Time: 3/10/17 1300 Company: APC		Method of Shipment:	
Relinquished by: Relinquished by: Relinquished by: Relinquished by: Date/Time: Date/Time: Date/Time: Date/Time:		Date/Time: 3/8/2017 12:34 Company: A	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



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 Pensacola, FL 32514
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

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: 205-684-6121 (Tel) Email: scopel@alpower.com Project Name: CCR Site: Miller Ash Pond (5)		Lab Info Lab Name: Whitnair, Cheyenne R. E-Mail: cheyenne.whitnair@testamericainc.com CQC No: 400-56525-24537.1 Page: Page 2 of 3 Job #: 400-154192	
Analysis Requested Due Date Requested: 7/17/17 TAT Requested (days): RUSH (see email)		Sample Information Sampler: NPT B.R.J.R. Phone: _____ Field/Filter/Sample/Container/Notes: SM 4500 Cl-E, SM 4500 SO4-E	
Sample Identification Sample No: AX03730 Sample Date: 2/14/17 Sample Time: 1002 Sample Type: G Matrix: Water	Sample No: AX03731 Sample Date: 2/14/17 Sample Time: 1030 Sample Type: G Matrix: Water	Sample No: AX03732 Sample Date: 2/14/17 Sample Time: 1135 Sample Type: G Matrix: Water	Sample No: AX03733 Sample Date: 2/14/17 Sample Time: 1135 Sample Type: G Matrix: Water
Sample No: AX03734 Sample Date: 2/14/17 Sample Time: 0940 Sample Type: G Matrix: Water	Sample No: AX03735 Sample Date: 2/14/17 Sample Time: 1115 Sample Type: G Matrix: Water	Sample No: AX03736 Sample Date: 2/14/17 Sample Time: 1213 Sample Type: G Matrix: Water	Sample No: AX03737 Sample Date: 2/14/17 Sample Time: 1320 Sample Type: G Matrix: Water
Sample No: AX03738 Sample Date: 2/14/17 Sample Time: 1345 Sample Type: G Matrix: Water	Sample No: AX03884 Sample Date: 2/15/17 Sample Time: 0925 Sample Type: G Matrix: Water	Sample No: AX03885 Sample Date: 2/15/17 Sample Time: 0955 Sample Type: G Matrix: Water	Sample No: AX03886 Sample Date: 2/15/17 Sample Time: 1130 Sample Type: G Matrix: Water
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, III, IV, Other (specify) _____			
Special Instructions/Notes MW-2 FB-3 (Field Blank) MW-5 MW-5 Dup (Sample Duplicate) MW-10 MW-7S MW-7D MW-5S FB-1 (Field Blank) MW-12 FB-2 (Field Blank) MW-13D			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - AsH2O2 E - NaHSO4 F - HNO3 G - Acetate H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - BDA Other: _____ M - Hexane N - None O - AsH2O2 P - NaOH Q - NaOH R - NaOH S - H2SO4 T - TSP Borate/hydrate U - Acetone V - MCA W - pH 4S Z - 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 Special Instructions/QC Requirements: _____			
Relinquished by: Sarah Copeland Date/Time: 3/10/17 1310 Date/Time: _____		Received by: _____ Date/Time: 3/8/2017 12:34 Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: _____	
Custody Seals Intact: _____ A Yes Δ No		Custody Seal No.: _____	



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

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

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: 205-564-6121 (Tel)
 Email: scopela@southalabama.com
 Project Name: 40007143
 CCR
 Site: Miller Ash Pond (5)

Sample Information
 Sample: N.P./B.J./J.R.
 Phone:
 Lab Pkt: Whittrite, Cheyenne R.
 E-Mail: cheyenne.whittrite@testamericainc.com

Analysis Requested
 Due Date Requested:
 TAT Requested (days): RUSH (see email)

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code	Retention/MSD (Yes/No)	SM 4500 Cl-E	SM 4500 SO4-E	Total Number of Containers	Special Instructions/Note
AX03887	2/15/17	1305	G	Water		X	X			MW-13S
AX03888	2/15/17	1305	G	Water		X	X			MW-13S Dup (Sample Duplicate)
AX03889	2/15/17	1516	G	Water		X	X			MW-8D
AX03890	2/15/17	1416	G	Water		X	X			MW-9S
AX03891	2/15/17	1423	G	Water		X	X			MW-9S Dis (Dissolved Sample)
AX03892	2/15/17	1530	G	Water		Y	X			MW-9D

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

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

Empty Kit Relinquished by: Sarah Copeland
 Relinquished by: Sarah Copeland
 Relinquished by:
 Relinquished by:

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: 3/10/17 1300
 Date/Time: 3/10/17 1300
 Date/Time:

Company: APC
 Company: APC
 Company:

Custody Seal No.:
 A Yes Δ No



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-134192-2
SDG Number: Miller Ash Pond (5)

Login Number: 134192

List Number: 1

Creator: Siddoway, Benjamin

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C, 1.1°C IR-2
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	



Certification Summary

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

TestAmerica Job ID: 400-134192-2
 SDG: Miller Ash Pond (5)

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17



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

 Alabama Power



Sample Group : WMWMILAP_1086

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1086

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 and analyzed by Test America, Pensacola. Below is the case narrative provided.

Job Narrative

400-135990-1

General Chemistry

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX07589 MW-6 (400-135990-3), AX07590 MW-6 DUP (400-135990-4), AX07592 PZ-5 (400-135990-6) and AX07593 MW-4 (400-135990-7). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The following sample were diluted to bring the concentration of target analytes within the calibration range: AX07594 MW-1 (400-135990-8) and AX07595 MW-11 (400-135990-9). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350202 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.

4. These samples were part of a re-sample event due to hold time exceedance by Test America.

Alabama Power General Test Laboratory
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FAX (205) 257-1654

Certificate Of Analysis



To: Dustin Brooks
Greg Dyer

Customer Account: WMWMILAP
Sample Date: 29-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX07587

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		40	56.0	200	760	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, 2017

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: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX07587

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	----	-----	-----	-------	-----	-------	------	-------

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX07587

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

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



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX07588

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		20	28.0	100	160	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, 2017

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: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX07588

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
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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, 2017

Comments: Test America Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX07588

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis



To: Dustin Brooks
Greg Dyer

Customer Account: WMWMILAP
Sample Date: 29-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX07589

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		30	42.0	150	540	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX07589

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
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 Laboratory certification ID: E571114
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 Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX07589

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

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, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
Sample Date: 29-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX07590

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
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General Characteristics

* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		30	42.0	150	540	mg/L
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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX07590

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	----	-----	-----	-------	-----	-------	------	-------

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX07590

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPEB
Sample Date: 29-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX07591

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
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General Characteristics

* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L
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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX07591

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	----	-----	-----	-------	-----	-------	------	-------

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 29-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX07591

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

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, 2017

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



To: Dustin Brooks
Greg Dyer

Customer Account: WMWMILAP
Sample Date: 30-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX07592

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		20	28.0	100	160	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, 2017

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: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX07592

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	----	-----	-----	-------	-----	-------	------	-------

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, 2017

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: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX07592

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

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, 2017

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: WMWMILAP
Sample Date: 30-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX07593

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		40	56.0	200	930	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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX07593

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	----	-----	-----	-------	-----	-------	------	-------

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, 2017

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: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX07593

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

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, 2017

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: WMWMILAP
Sample Date: 30-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX07594

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		50	70.0	250	470	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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX07594

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
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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, 2017

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: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX07594

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

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, 2017

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: WMWMILAP
Sample Date: 30-Mar-17
Customer ID:
Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX07595

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
General Characteristics									
* Sulfate, Total, by Test America	SGC	4/19/2017	SM 4500 SO4_E		50	70.0	250	650	mg/L

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX07595

Sample	Analysis	Units	MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
--------	----------	-------	----	-------	-------	----	-----	-----	-------	-----	-------	------	-------

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



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 30-Mar-17
 Customer ID:
 Delivery Date: 03-Apr-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX07595

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

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, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 03/29/2017 15:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (250mL): Anions		
Comments	Re-sample event for Sulfate hold time exceedance by Test America. All samples outsourced to Test America. There is no pH preservation requirement for anions.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	03/29/2017	10:03	1	Groundwater		AX07587
MW-3S	03/29/2017	11:06	1	Groundwater		AX07588
MW-6	03/29/2017	12:05	1	Groundwater		AX07589
MW-6DUP	03/29/2017	12:05	1	Sample Duplicate		AX07590

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: 2017.03.29 15:55:07 -0500</small>	03/29/2017 15:55

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp
		0.9 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		NA



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Anthony Goggins"/>	Location	<input type="text" value="Miller Ash Pond"/>

Analysis Requested	<input type="text" value="Bottle 1 (250mL): Anions"/>
Comments	<input type="text" value="Re-sample event for Sulfate hold time exceedance by Test America. All samples outsourced to Test America. There is no pH preservation requirement for anions."/>

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
EB-1	03/29/2017	13:04	1	Equipment Blank		AX07591
PZ-5	03/30/2017	10:53	1	Groundwater		AX07592

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Keith Krusey</i>	03/30/2017 13:00

SmarTroll ID	<input type="text" value="5141-26150-1-1"/>	All metals and radiological bottles have pH < 2 <input type="checkbox"/> Cooler Temp <input type="text" value="1.8 degrees C"/> Thermometer ID <input type="text" value="4303-21829-1-1"/> pH Strip ID <input type="text" value="NA"/>
Turbidity ID	<input type="text" value="3901-20009-2-1"/>	



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 03/30/2017 14:00

Requested Complete Date Routine
Site Representative Jeff K. Baker
Collector Ben Rothschild

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

Analysis Requested Bottle 1 (250mL): Anions
Comments Samples received by Keith Kornegay 3/30/17, 1300.
Re-sample event for Sulfate hold time exceedance by Test America. Sample outsourced to Test America.
There is no pH preservation requirement for anions.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	03/30/2017	09:53	1	Groundwater		AX07593

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopel@southernco.com, c=US Date: 2017.04.03 09:40:57 -05'00'</small>	04/03/2017 09:41

SmarTroll ID 4696-23441-1-1
Turbidity ID 3901-20010-2-2

All metals and radiological bottles have pH < 2
Cooler Temp 1.8 degrees C
Thermometer ID 4303-21829-1-1
pH Strip ID NA



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 03/30/2017 16:00

Requested Complete Date Routine
Site Representative Jeff K. Baker
Collector Jason Rouss

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

Analysis Requested Bottle 1 (250 mL): Anions
Comments Anion resample due to laboratory hold time error for Sulfate by Test America. Samples outsourced to Test America. There is no pH preservation requirement for anions.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	03/30/2017	10:37	1	Groundwater		AX07594
MW-11	03/30/2017	13:07	1	Groundwater		AX07595

Relinquished By	Received By	Date/Time
<i>Jason Rouss</i>	<i>Kate King</i>	03/30/2017 15:41

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

All metals and radiological bottles have pH < 2
Cooler Temp 1.8 degrees C
Thermometer ID 4303-21829-1-1
pH Strip ID NA

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: 400-135990-1

TestAmerica Sample Delivery Group: Miller Ash Pond (5)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

4/18/2017 3:12:15 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 Miller

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Job ID: 400-135990-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-135990-1

General Chemistry

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX07589 MW-6 (400-135990-3), AX07590 MW-6 DUP (400-135990-4), AX07592 PZ-5 (400-135990-6) and AX07593 MW-4 (400-135990-7). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The following sample were diluted to bring the concentration of target analytes within the calibration range: AX07594 MW-1 (400-135990-8) and AX07595 MW-11 (400-135990-9). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350202 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 Miller

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX07587 MW-3D

Lab Sample ID: 400-135990-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	760		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07588 MW-3S

Lab Sample ID: 400-135990-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	160		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07589 MW-6

Lab Sample ID: 400-135990-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	540		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07590 MW-6 DUP

Lab Sample ID: 400-135990-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	540		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07591 EB-1

Lab Sample ID: 400-135990-5

No Detections.

Client Sample ID: AX07592 PZ-5

Lab Sample ID: 400-135990-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	160		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07593 MW-4

Lab Sample ID: 400-135990-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	930		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07594 MW-1

Lab Sample ID: 400-135990-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	470		250	70	mg/L	50		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07595 MW-11

Lab Sample ID: 400-135990-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	650	F1	250	70	mg/L	50		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 Miller

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Method	Method Description	Protocol	Laboratory
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 Miller

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-135990-1	AX07587 MW-3D	Water	03/29/17 10:03	04/04/17 16:21
400-135990-2	AX07588 MW-3S	Water	03/29/17 11:06	04/04/17 16:21
400-135990-3	AX07589 MW-6	Water	03/29/17 12:05	04/04/17 16:21
400-135990-4	AX07590 MW-6 DUP	Water	03/29/17 12:05	04/04/17 16:21
400-135990-5	AX07591 EB-1	Water	03/29/17 13:04	04/04/17 16:21
400-135990-6	AX07592 PZ-5	Water	03/30/17 10:53	04/04/17 16:21
400-135990-7	AX07593 MW-4	Water	03/30/17 09:53	04/04/17 16:21
400-135990-8	AX07594 MW-1	Water	03/30/17 10:37	04/04/17 16:21
400-135990-9	AX07595 MW-11	Water	03/30/17 13:07	04/04/17 16:21



Client Sample Results

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

TestAmerica Job ID: 400-135990-1
 SDG: Miller Ash Pond (5)

Client Sample ID: AX07587 MW-3D

Lab Sample ID: 400-135990-1

Date Collected: 03/29/17 10:03

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	760		200	56	mg/L			04/15/17 08:29	40

Client Sample ID: AX07588 MW-3S

Lab Sample ID: 400-135990-2

Date Collected: 03/29/17 11:06

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	160		100	28	mg/L			04/15/17 08:29	20

Client Sample ID: AX07589 MW-6

Lab Sample ID: 400-135990-3

Date Collected: 03/29/17 12:05

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	540		150	42	mg/L			04/15/17 08:50	30

Client Sample ID: AX07590 MW-6 DUP

Lab Sample ID: 400-135990-4

Date Collected: 03/29/17 12:05

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	540		150	42	mg/L			04/15/17 08:50	30

Client Sample ID: AX07591 EB-1

Lab Sample ID: 400-135990-5

Date Collected: 03/29/17 13:04

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			04/15/17 08:21	1

Client Sample ID: AX07592 PZ-5

Lab Sample ID: 400-135990-6

Date Collected: 03/30/17 10:53

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	160		100	28	mg/L			04/15/17 09:08	20

Client Sample ID: AX07593 MW-4

Lab Sample ID: 400-135990-7

Date Collected: 03/30/17 09:53

Matrix: Water

Date Received: 04/04/17 16:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	930		200	56	mg/L			04/15/17 09:08	40

Client Sample Results

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

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX07594 MW-1

Date Collected: 03/30/17 10:37

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	470		250	70	mg/L			04/18/17 09:24	50

Client Sample ID: AX07595 MW-11

Date Collected: 03/30/17 13:07

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	650	F1	250	70	mg/L			04/18/17 09:24	50

Definitions/Glossary

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

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX07587 MW-3D

Date Collected: 03/29/17 10:03

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		40	349884	04/15/17 08:29	BJB	TAL PEN

Client Sample ID: AX07588 MW-3S

Date Collected: 03/29/17 11:06

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		20	349884	04/15/17 08:29	BJB	TAL PEN

Client Sample ID: AX07589 MW-6

Date Collected: 03/29/17 12:05

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		30	349884	04/15/17 08:50	BJB	TAL PEN

Client Sample ID: AX07590 MW-6 DUP

Date Collected: 03/29/17 12:05

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		30	349884	04/15/17 08:50	BJB	TAL PEN

Client Sample ID: AX07591 EB-1

Date Collected: 03/29/17 13:04

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	349884	04/15/17 08:21	BJB	TAL PEN

Client Sample ID: AX07592 PZ-5

Date Collected: 03/30/17 10:53

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		20	349884	04/15/17 09:08	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

Client Sample ID: AX07593 MW-4

Date Collected: 03/30/17 09:53

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		40	349884	04/15/17 09:08	BJB	TAL PEN

Client Sample ID: AX07594 MW-1

Date Collected: 03/30/17 10:37

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		50	350202	04/18/17 09:24	BJB	TAL PEN

Client Sample ID: AX07595 MW-11

Date Collected: 03/30/17 13:07

Date Received: 04/04/17 16:21

Lab Sample ID: 400-135990-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		50	350202	04/18/17 09:24	BJB	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 Miller

TestAmerica Job ID: 400-135990-1
SDG: Miller Ash Pond (5)

General Chemistry

Analysis Batch: 349884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135990-1	AX07587 MW-3D	Total/NA	Water	SM 4500 SO4 E	
400-135990-2	AX07588 MW-3S	Total/NA	Water	SM 4500 SO4 E	
400-135990-3	AX07589 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-135990-4	AX07590 MW-6 DUP	Total/NA	Water	SM 4500 SO4 E	
400-135990-5	AX07591 EB-1	Total/NA	Water	SM 4500 SO4 E	
400-135990-6	AX07592 PZ-5	Total/NA	Water	SM 4500 SO4 E	
400-135990-7	AX07593 MW-4	Total/NA	Water	SM 4500 SO4 E	
MB 400-349884/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-349884/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-349884/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-135988-A-21 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-135988-A-21 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 350202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135990-8	AX07594 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-135990-9	AX07595 MW-11	Total/NA	Water	SM 4500 SO4 E	
MB 400-350202/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-350202/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-350202/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-135990-9 MS	AX07595 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-135990-9 MSD	AX07595 MW-11	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

TestAmerica Job ID: 400-135990-1
 SDG: Miller Ash Pond (5)

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-349884/6
Matrix: Water
Analysis Batch: 349884

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			04/15/17 07:42	1

Lab Sample ID: LCS 400-349884/7
Matrix: Water
Analysis Batch: 349884

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	14.8		mg/L		99	90 - 110

Lab Sample ID: MRL 400-349884/3
Matrix: Water
Analysis Batch: 349884

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	4.71	J	mg/L		94	50 - 150

Lab Sample ID: 400-135988-A-21 MS
Matrix: Water
Analysis Batch: 349884

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
Sulfate	31		10.0	42.6		mg/L		117	77 - 128

Lab Sample ID: 400-135988-A-21 MSD
Matrix: Water
Analysis Batch: 349884

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	Limit
Sulfate	31		10.0	43.8		mg/L		128	77 - 128	3	5

Lab Sample ID: MB 400-350202/6
Matrix: Water
Analysis Batch: 350202

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			04/18/17 08:08	1

Lab Sample ID: LCS 400-350202/7
Matrix: Water
Analysis Batch: 350202

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 400-350202/3
Matrix: Water
Analysis Batch: 350202

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	6.25		mg/L		125	50 - 150

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-135990-1
 SDG: Miller Ash Pond (5)

Lab Sample ID: 400-135990-9 MS
Matrix: Water
Analysis Batch: 350202

Client Sample ID: AX07595 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	650	F1	500	666	F1	mg/L		4	77 - 128

Lab Sample ID: 400-135990-9 MSD
Matrix: Water
Analysis Batch: 350202

Client Sample ID: AX07595 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	650	F1	500	645	F1	mg/L		-0.8	77 - 128	3	5

- 1
- 2
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- 12
- 13
- 14

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: Whitnire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		Lab P#: A.G./B.R./J.R.		E-Mail: cheyenne.whitnire@testamericainc.com		Page: Page 1 of 1	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested		Job #: 400-135990	
Address: 744 County Rd 87 GSC #8		TAT Requested (days):		Routine		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:	
City: Callera		PO #:		400-135990 COC		M- Hexane N- None O- ASN02 P- Na2O4S Q- Na2SO3 R- Na2SO3 S- H2SO4 T- TSP Dodecahydrate U- Acetone V- MCAA W- ph 4-5 X- other (specify)	
State, Zip: AL, 35040		WOC #:		400-135990 COC		Special Instructions/Note:	
Phone: 205-664-6121(Tel)		Project #:		400-135990 COC		Total Number of Containers	
Email: sgcopela@southernco.com		CCR		400-135990 COC		MW-3D MW-3S MW-6 MW-6 Dup (Sample Duplicate) EB-1 (Equipment Blank) PZ-5 MW-4 MW-1 MW-11	
Site: Miller Ash Pond (5)		SSON#:		400-135990 COC		Special Instructions/Note:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Trace, A=Air)	SM 4500 F-C	SM 4500 Cl-E	SM 4500 SO4-E
AX07587	3/29/17	1003	G	Water		X	X
AX07588	3/29/17	1106	G	Water		X	X
AX07589	3/29/17	1205	G	Water		X	X
AX07590	3/29/17	1205	G	Water		X	X
AX07591	3/29/17	1304	G	Water		X	X
AX07592	3/30/17	1053	G	Water		X	X
AX07593	3/30/17	0953	G	Water		X	X
AX07594	3/30/17	1037	G	Water		X	X
AX07595	3/30/17	1307	G	Water		X	X
<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			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Sarah Copeland		Date/Time: 04/03/2017: 1200		Date/Time:		Company	
Relinquished by:		Date/Time:		Date/Time:		Company	
Relinquished by:		Date/Time:		Date/Time:		Company	
Custody Seals Intact Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 14.7°C IR7		Company	



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-135990-1
SDG Number: Miller Ash Pond (5)

Login Number: 135990

List Number: 1

Creator: Siddoway, Benjamin

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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	14.2°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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 Miller

TestAmerica Job ID: 400-135990-1
 SDG: Miller Ash Pond (5)

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

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

 Alabama Power



Sample Group : WMWMILAP_1088

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1088

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 anions were outsourced to Test America, Pensacola. Below is the narrative provided.

Job Narrative

400-136381-1

General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX07712 MW-3D (400-136381-1), AX07714 MW-4 (400-136381-3) and AX07715 MW-4 DUP (400-136381-4). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 Cl- E: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 350274 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350323 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350453 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: AX07712 MW-3D (400-136381-1), AX07713 MW-3S (400-136381-2), AX07714 MW-4 (400-136381-3), AX07715 MW-4 DUP (400-136381-4), AX07717 MW-1 (400-136381-6), AX07718 MW-16 (400-136381-7), AX07719 MW-11 (400-136381-8), AX07720 PZ-5 (400-136381-9), AX07721 MW-5 (400-136381-10), AX07722 MW-6 (400-136381-11), AX07723 MW-8S (400-136381-12), AX07789 MW-8D (400-136381-14), AX07790 MW-9D (400-136381-15), AX07791 MW-8D DUP (400-136381-16), AX07792 MW-7S (400-136381-17), AX07793 MW-7D (400-136381-18), AX07794 MW-14 (400-136381-19), AX07795 MW-15 (400-136381-20), AX07796 MW-12 (400-136381-21), AX07798 MW-13D (400-136381-23), AX07799 MW-13D DUP (400-136381-24), AX07800 MW-2 (400-136381-25), AX07972 MW-10 (400-136381-27), AX07973 MW-13S (400-136381-28) and AX07974 MW-9S (400-136381-29). Elevated reporting limits (RLs) are provided.



Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350262 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 350352 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 350401 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 350456 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 350574 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.

Comments

Report revised per client request to change sample ID from AX07722 MW-5 (400-136381-11) as listed on coc, to AX07722 MW-6.



Metals ICP

Miller Ash Pond

WMWMILAP_1088

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>
AX07712	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07713	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07714	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07715	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07716	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07717	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07718	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07719	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07720	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07721	20170412D & 20170414D & 20170425Fe	WMWMILAP_1088
AX07722	20170422D & 20170425	WMWMILAP_1088
AX07723	20170422D & 20170425	WMWMILAP_1088
AX07724	20170422D & 20170425	WMWMILAP_1088
AX07789	20170422D & 20170425	WMWMILAP_1088
AX07790	20170422D & 20170425	WMWMILAP_1088
AX07791	20170422D & 20170425	WMWMILAP_1088
AX07792	20170422D & 20170425	WMWMILAP_1088
AX07793	20170422D & 20170425	WMWMILAP_1088
AX07794	20170422D & 20170425	WMWMILAP_1088
AX07795	20170422D & 20170425	WMWMILAP_1088
AX07796	20170422E & 20170425	WMWMILAP_1088
AX07797	20170422E & 20170425	WMWMILAP_1088
AX07798	20170422E & 20170425	WMWMILAP_1088
AX07799	20170422E & 20170425	WMWMILAP_1088
AX07800	20170422E & 20170425	WMWMILAP_1088
AX07801	20170422E & 20170425	WMWMILAP_1088
AX07972	20170422E & 20170425	WMWMILAP_1088
AX07973	20170422E & 20170425	WMWMILAP_1088
AX07974	20170422E & 20170425	WMWMILAP_1088



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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met. ICV concentration for Li set to 0.2ppm.
- 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. CCV concentration for Li set to 0.2ppm. An additional rinse and CCV were added between each sample for possible matrix issues in batch 20170412D & 20170414D & 20170425Fe.
- 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 read backs 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:

<u>Analyte</u>	<u>Sample ID</u>
Lithium	AX07721

A dilution spike and serial dilutions performed on AX07721 resulted in failing accuracy but passing precision indicating matrix effect on the sample.



Analyte

Calcium

Sample ID

AX07721

The concentration of this analyte in the sample was greater than 3.3X the concentration of the matrix spike added during digestion, 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 x2 dilution due to possible matrix issues. This was performed by adding 5mL of water to 5mL undiluted digested sample. All samples were analyzed at x2 dilution with the following exceptions: The following samples were diluted due to analyzed sample concentrations over the high standard of the calibration curve. The following samples were diluted 1:10 by adding 9mL of water to 1mL of the undiluted digested sample for a total volume of 10mL. This gave a dilution factor of x10.

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AX07712	Calcium	x10
AX07714	Calcium	x10
AX07715	Calcium	x10
AX07718	Calcium	x10
AX07719	Calcium	x10
AX07721	Calcium	x10
AX07721MS	Calcium	x10
AX07721MSD	Calcium	x10
AX07722	Calcium	x10
AX07792	Calcium	X10
AX07793	Calcium	x10
AX07796	Calcium	x10
AX07800	Calcium	x10
AX07972	Calcium	x10

8. The raw data results include both results corrected for dilution and results not corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1088

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>
AX07712	591741	WMWMILAP_1088
AX07713	591741	WMWMILAP_1088
AX07714	591741	WMWMILAP_1088
AX07715	591741	WMWMILAP_1088
AX07716	591741	WMWMILAP_1088
AX07717	591741	WMWMILAP_1088
AX07718	591741	WMWMILAP_1088
AX07719	591741	WMWMILAP_1088
AX07720	591741	WMWMILAP_1088
AX07721	591741	WMWMILAP_1088
AX07722	591742	WMWMILAP_1088
AX07723	591742	WMWMILAP_1088
AX07724	591742	WMWMILAP_1088
AX07789	591742	WMWMILAP_1088
AX07790	591742	WMWMILAP_1088
AX07791	591742	WMWMILAP_1088
AX07792	591742	WMWMILAP_1088
AX07793	591742	WMWMILAP_1088
AX07794	591742	WMWMILAP_1088
AX07795	591742	WMWMILAP_1088
AX07796	591743	WMWMILAP_1088
AX07797	591743	WMWMILAP_1088
AX07798	591743	WMWMILAP_1088
AX07799	591743	WMWMILAP_1088
AX07800	591743	WMWMILAP_1088
AX07801	591743	WMWMILAP_1088
AX07972	591743	WMWMILAP_1088
AX07973	591743	WMWMILAP_1088
AX07974	591743	WMWMILAP_1088



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

Miller Ash Pond

WMWMILAP_1088

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AX07722	591437	WMWMILAP_1088
AX07723	591437	WMWMILAP_1088
AX07724	591437	WMWMILAP_1088
AX07712	591438	WMWMILAP_1088
AX07713	591438	WMWMILAP_1088
AX07714	591438	WMWMILAP_1088
AX07715	591438	WMWMILAP_1088
AX07716	591438	WMWMILAP_1088
AX07717	591438	WMWMILAP_1088
AX07718	591438	WMWMILAP_1088
AX07719	591438	WMWMILAP_1088
AX07720	591438	WMWMILAP_1088
AX07721	591438	WMWMILAP_1088
AX07789	591588	WMWMILAP_1088
AX07790	591588	WMWMILAP_1088
AX07791	591588	WMWMILAP_1088
AX07792	591588	WMWMILAP_1088
AX07793	591588	WMWMILAP_1088
AX07794	591588	WMWMILAP_1088
AX07795	591588	WMWMILAP_1088
AX07796	591588	WMWMILAP_1088
AX07797	591588	WMWMILAP_1088
AX07798	591588	WMWMILAP_1088
AX07799	591589	WMWMILAP_1088
AX07800	591589	WMWMILAP_1088
AX07801	591589	WMWMILAP_1088
AX07972	591589	WMWMILAP_1088
AX07973	591589	WMWMILAP_1088
AX07974	591589	WMWMILAP_1088



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

Miller Ash Pond

WMWMILAP_1088

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>
AX07712	581158	WMWMILAP_1088
AX07713	581158	WMWMILAP_1088
AX07714	581158	WMWMILAP_1088
AX07715	581158	WMWMILAP_1088
AX07716	581158	WMWMILAP_1088
AX07717	581158	WMWMILAP_1088
AX07718	581158	WMWMILAP_1088
AX07719	581158	WMWMILAP_1088
AX07720	591467	WMWMILAP_1088
AX07721	591467	WMWMILAP_1088
AX07722	591467	WMWMILAP_1088
AX07723	591467	WMWMILAP_1088
AX07724	591467	WMWMILAP_1088
AX07789	591467	WMWMILAP_1088
AX07790	591467	WMWMILAP_1088
AX07791	591467	WMWMILAP_1088
AX07792	591468	WMWMILAP_1088
AX07793	591468	WMWMILAP_1088
AX07794	591468	WMWMILAP_1088
AX07795	591468	WMWMILAP_1088
AX07796	591468	WMWMILAP_1088
AX07797	591468	WMWMILAP_1088
AX07798	591468	WMWMILAP_1088
AX07799	591468	WMWMILAP_1088
AX07800	591468	WMWMILAP_1088
AX07801	591468	WMWMILAP_1088
AX07972	591401	WMWMILAP_1088
AX07973	591401	WMWMILAP_1088
AX07974	591401	WMWMILAP_1088



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 0.5 mg of the previous weight,
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%, with the exception of AX07791 because of high solid sample.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- All samples were between 2.5 mg and 200 mg residue, with the exception of AX07716, AX07724 and AX07797 which were less than 2.5 mg.

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX07712

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	0.0115	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0244	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7	2		0.02	0.1	0.527	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.00	5.0	282	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00861	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7	2		0.01	0.05	0.163	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0238	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C	1			100	1370	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	5		3.00	10	55	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.28	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	30		42.0	150	860	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX07712

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX07712

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX07713

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00128	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.109	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7	2		0.02	0.1	0.192	mg/L
* Calcium, Total	HRG	4/12/2017	EPA 200.7	2		0.1	0.5	4.45	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7	2		0.01	0.05	0.250	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0261	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C	1			50	606	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	31	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.25	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	20		28.0	100	180	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX07713

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX07713

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX07714

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0130	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7		2	0.02	0.1	0.536	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		10	1.00	5.0	287	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	J 0.000241	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0348	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7		2	0.01	0.05	0.134	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	J 0.00343	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C		1		100	1270	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		2	1.20	4	50	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.27	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		40	56.0	200	870	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX07714

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20	
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20	
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20	
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20	
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20	
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20	
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20	
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20	
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055320		
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	20	
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20	
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20	
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20	
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042120		

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 NELAP 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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX07714

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	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

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX07715

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0120	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7		2	0.02	0.1	0.528	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		10	1.00	5.0	295	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	J 0.000229	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0347	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7		2	0.01	0.05	0.132	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	J 0.00351	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C		1		100	1290	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		2	1.20	4	54	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.29	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		40	56.0	200	920	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX07715

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	20
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX07715

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07716

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	4/12/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		1	1.40	5.00	J 1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07716

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20	
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20	
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20	
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20	
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20	
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20	
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20	
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20	
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20	
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055320		
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	20	
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20	
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042120		
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20	
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	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, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07716

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX07717

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00232	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0996	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7	2		0.02	0.1	J 0.0631	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.00	5.0	168	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00215	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7	2		0.01	0.05	0.225	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00788	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C	1			50	1000	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	11	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.15	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	30		42.0	150	560	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX07717

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	20
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX07717

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX07718

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0245	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7		2	0.02	0.1	1.86	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		10	1.00	5.0	159	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	J 0.00228	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7		2	0.01	0.05	J 0.0487	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0119	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	J 0.00262	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	J 0.000226	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C		1		50	846	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	25	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		30	42.0	150	520	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX07718

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20	
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20	
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20	
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20	
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20	
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20	
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20	
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20	
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20	
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20	
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120	
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320	
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	20	
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20	
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX07718

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX07719

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0292	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7	2		0.02	0.1	J 0.0252	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.00	5.0	166	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7	2		0.01	0.05	0.154	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	4/10/2017	SM 2540C	1			50	1140	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	7.0	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	40		56.0	200	690	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX07719

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX07719

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07719	Solids, Dissolved	mg/L	-5.0	25			1170	47.0	40 to 60	1.30	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX07720

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00206	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.166	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7	2		0.02	0.1	0.424	mg/L
* Calcium, Total	HRG	4/12/2017	EPA 200.7	2		0.1	0.5	28.7	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	J 0.000800	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7	2		0.01	0.05	0.216	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00474	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			50	710	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	32	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	1.1	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	20		28.0	100	190	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, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX07720

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX07720

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60		5.28
											5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX07721

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	0.0141	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0148	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/12/2017	EPA 200.7	2		0.02	0.1	0.932	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.00	5.0	329	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/12/2017	EPA 200.7	2		0.01	0.05	0.307	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0719	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			100	1600	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	48	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.30	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	40		56.0	200	1100	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Calcium was out of spec.
 The spike amount was less than 30% of the sample concentration.
 Recovery for Lithium was out of spec.
 Serial dilutions and a dilution spike indicate matrix effect on the sample.

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX07721

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07721	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.107	0.108	0.0935	0.085 to 0.115	92.2	70 to 130	0.904	20
AX07721	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0972	0.0973	0.0992	0.085 to 0.115	97.2	70 to 130	0.0129	20
AX07721	Boron, Total	mg/L	0.000355	0.044	1.00	1.91	1.95	0.963	0.85 to 1.15	98.2	70 to 130	1.66	20
AX07721	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.397	20
AX07721	Lithium, Total	mg/L	-0.00000556	0.022	0.20	0.590	0.594	0.210	0.17 to 0.23	142	70 to 130	0.733	20
AX07721	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.101	0.101	0.0995	0.085 to 0.115	101	70 to 130	0.468	20
AX07721	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.102	0.102	0.0985	0.085 to 0.115	102	70 to 130	0.0042	120
AX07721	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0956	0.0931	0.100	0.085 to 0.115	95.6	70 to 130	2.65	20
AX07721	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.112	0.115	0.102	0.085 to 0.115	112	70 to 130	2.66	20
AX07721	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.169	0.170	0.0941	0.085 to 0.115	96.8	70 to 130	0.945	20
AX07721	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.101	0.100	0.0965	0.085 to 0.115	101	70 to 130	0.565	20
AX07721	Mercury, Total by CVAA	mg/L	0.000142	0.0005	0.004	0.00381	0.00384	0.00399	0.0034 to 0.0046	95.2	70 to 130	0.897	20
AX07721	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0951	0.0953	0.102	0.085 to 0.115	95.1	70 to 130	0.181	20
AX07721	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.117	0.117	0.104	0.085 to 0.115	103	70 to 130	0.0055	320
AX07721	Calcium, Total	mg/L	-0.00322	0.22	5.0	325	314	4.84	4.25 to 5.75	-80.0	70 to 130	3.44	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, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Calcium was out of spec.
 The spike amount was less than 30% of the sample concentration.
 Recovery for Lithium was out of spec.
 Serial dilutions and a dilution spike indicate matrix effect on the sample.

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX07721

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Recovery for Calcium was out of spec.
 The spike amount was less than 30% of the sample concentration.
 Recovery for Lithium was out of spec.
 Serial dilutions and a dilution spike indicate matrix effect on the sample.

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX07722

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0253	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	0.881	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		10	1.0	5	141	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0701	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	0.102	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	J 0.00623	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		100	852	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	29	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	J 0.070	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		30	42.0	150	550	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX07722

Sample	Analysis	Units	MB	MB			MS	MSD	LFB		Rec		Prec	Limit
				Limit	Spike	MS			Limit	Rec	Limit	Prec		
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115	100	70 to 130	0.586	20	
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15	104	70 to 130	0.115	20	
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115	99.8	70 to 130	0.381	20	
AX07724	Mercury, Total by CVAA	mg/L	0.000141	0.0005	0.004	0.00386	0.00390	0.00388	0.0034 to 0.0046	96.6	70 to 130	0.802	20	
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115	96.0	70 to 130	0.311	20	
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.493	20	
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115	95.3	70 to 130	0.969	20	
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115	90.1	70 to 130	0.0835	20	
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115	91.1	70 to 130	1.28	20	
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23	119	70 to 130	0.105	20	
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115	92.5	70 to 130	5.91	20	
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75	96.5	70 to 130	0.612	20	
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115	95.3	70 to 130	3.47	20	
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115	109	70 to 130	1.00	20	
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115	94.7	70 to 130	0.832	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 03-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX07722

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX07723

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0212	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	1.58	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	62.2	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	J 0.0483	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0535	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		50	726	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	6.5	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.43	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		40	56.0	200	370	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX07723

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	
			MB	Limit					Limit	Rec	Limit	Prec		
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130	0.586	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130	0.381	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130	0.115	20
AX07724	Mercury, Total by CVAA	mg/L	0.000141	0.0005	0.004	0.00386	0.00390	0.00388	0.0034 to 0.0046		96.6	70 to 130	0.802	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130	0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130	0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130	0.969	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130	1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130	0.832	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130	0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130	1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130	0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130	5.91	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130	0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130	3.47	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX07723

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	5

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07724

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/12/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07724

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115	100	70 to 130	0.586	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15	104	70 to 130	0.115	20
AX07724	Mercury, Total by CVAA	mg/L	0.000141	0.0005	0.004	0.00386	0.00390	0.00388	0.0034 to 0.0046	96.6	70 to 130	0.802	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115	99.8	70 to 130	0.381	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115	109	70 to 130	1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115	94.7	70 to 130	0.832	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115	96.0	70 to 130	0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115	95.3	70 to 130	0.969	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115	90.1	70 to 130	0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115	91.1	70 to 130	1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23	119	70 to 130	0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115	92.5	70 to 130	5.91	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75	96.5	70 to 130	0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115	95.3	70 to 130	3.47	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 04-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07724

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	5

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 Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX07789

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0311	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	1.15	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	55.7	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	J 0.00279	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	J 0.0461	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0236	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		50	662	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	8.2	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.30	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		40	56.0	200	320	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX07789

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130		0.586	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130		0.381	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130		0.115	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130		0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130		1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130		0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130		5.91	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130		0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130		0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130		0.969	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130		1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130		0.832	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130		0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130		3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130		1.28	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX07789

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60		5.28
											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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX07790

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00218	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0117	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	0.716	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	2		0.1	0.5	65.4	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0222	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	0.0890	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			50	808	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.11	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	20		28.0	100	530	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX07790

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130		0.586	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130		0.381	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130		0.115	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130		0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130		0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130		0.969	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130		0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130		3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130		1.28	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130		0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130		1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130		0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130		5.91	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130		1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130		0.832	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX07790

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	5

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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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-8D Dup

Laboratory ID Number: AX07791

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0328	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	1.14	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	2		0.1	0.5	55.3	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00297	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	J 0.0463	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0239	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			50	610	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	9.2	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.29	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	20		28.0	100	360	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Precision for TDS was out of spec due to high solid sample.

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-8D Dup

Laboratory ID Number: AX07791

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115	99.8	70 to 130	0.381	20
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115	100	70 to 130	0.586	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15	104	70 to 130	0.115	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115	96.0	70 to 130	0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115	100	70 to 130	0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115	95.3	70 to 130	0.969	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115	109	70 to 130	1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115	94.7	70 to 130	0.832	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115	90.1	70 to 130	0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115	91.1	70 to 130	1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23	119	70 to 130	0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115	92.5	70 to 130	5.91	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75	96.5	70 to 130	0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115	95.3	70 to 130	3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046	98.3	70 to 130	1.28	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Precision for TDS was out of spec due to high solid sample.

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-8D Dup

Laboratory ID Number: AX07791

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60		5.28

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010
 Precision for TDS was out of spec due to high solid sample.

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX07792

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	J 0.00253	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0349	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	0.727	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		10	1.0	5.0	81.6	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	0.183	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0284	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		50	582	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	24	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.20	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		20	28.0	100	260	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX07792

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130	0.586	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130	0.115	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130	0.381	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130	0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130	0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130	0.969	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130	0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130	1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130	0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130	5.91	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130	0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130	3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130	1.28	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130	1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130	0.832	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX07792

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX07793

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00157	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0295	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	0.755	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.0	5	105	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	0.137	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00890	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			50	746	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	26	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	J 0.090	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	20		28.0	100	350	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMLAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX07793

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130		0.586	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130		0.381	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130		0.115	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130		0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130		0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130		0.969	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130		0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130		3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130		1.28	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130		1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130		0.832	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130		0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130		1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130		0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130		5.91	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX07793

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07791	Solids, Dissolved	mg/L	-8.0	25			678	55.0	40 to 60	5.28	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

Customer Account: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX07794

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0663	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	0.129	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	31.7	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	J 0.0221	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		25	209	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	7.6	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		5	7.00	25	41	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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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

Customer Account: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX07794

Sample	Analysis	Units	MB			MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit	Spike				Limit	Rec	Limit	Prec		
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130	0.586	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130	0.381	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130	0.115	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130	0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130	0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130	0.969	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130	0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130	1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130	0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130	5.91	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130	0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130	3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130	1.28	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130	1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130	0.832	20

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Laboratory certification ID: E571114

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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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX07794

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX07795

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0962	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	0.147	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	37.5	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	J 0.0216	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		25	257	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	19	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		10	14.0	50	71	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX07795

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX07795	Arsenic, Total	mg/L	0.00000731	0.0022	0.10	0.100	0.0997	0.104	0.085 to 0.115		100	70 to 130		0.586	20
AX07795	Boron, Total	mg/L	-0.00664	0.044	1.00	1.19	1.19	1.03	0.85 to 1.15		104	70 to 130		0.115	20
AX07795	Antimony, Total	mg/L	0.0000487	0.00132	0.10	0.0998	0.100	0.0995	0.085 to 0.115		99.8	70 to 130		0.381	20
AX07795	Cadmium, Total	mg/L	-0.000000724	0.00044	0.10	0.0960	0.0957	0.0992	0.085 to 0.115		96.0	70 to 130		0.311	20
AX07795	Chromium, Total	mg/L	0.0000182	0.0044	0.10	0.100	0.101	0.100	0.085 to 0.115		100	70 to 130		0.493	20
AX07795	Selenium, Total	mg/L	0.0000433	0.0044	0.10	0.0953	0.0944	0.102	0.085 to 0.115		95.3	70 to 130		0.969	20
AX07795	Barium, Total	mg/L	-0.000000170	0.0044	0.10	0.186	0.186	0.0935	0.085 to 0.115		90.1	70 to 130		0.0835	20
AX07795	Beryllium, Total	mg/L	0.0000188	0.00132	0.10	0.0911	0.0923	0.100	0.085 to 0.115		91.1	70 to 130		1.28	20
AX07795	Lithium, Total	mg/L	-0.000103	0.022	0.20	0.259	0.259	0.213	0.17 to 0.23		119	70 to 130		0.105	20
AX07795	Thallium, Total	mg/L	0.0000161	0.00044	0.10	0.0925	0.0981	0.0965	0.085 to 0.115		92.5	70 to 130		5.91	20
AX07795	Cobalt, Total	mg/L	-0.000000084	0.0044	0.10	0.109	0.111	0.102	0.085 to 0.115		109	70 to 130		1.00	20
AX07795	Molybdenum, Total	mg/L	0.00000405	0.0044	0.10	0.0947	0.0955	0.0941	0.085 to 0.115		94.7	70 to 130		0.832	20
AX07795	Calcium, Total	mg/L	-0.0727	0.22	5.00	42.4	42.1	4.88	4.25 to 5.75		96.5	70 to 130		0.612	20
AX07795	Lead, Total	mg/L	0.0000176	0.0022	0.10	0.0953	0.0987	0.0985	0.085 to 0.115		95.3	70 to 130		3.47	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130		1.28	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX07795

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX07796

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00186	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0210	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	2.51	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.0	5	167	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	J 0.000652	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	0.279	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0360	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			125	1840	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	9.5	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.67	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	35		49.0	180	1100	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX07796

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115		98.6	70 to 130	1.49	20
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115		87.0	70 to 130	1.37	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15		103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115		96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115		91.7	70 to 130	1.30	20
AX07974	Cadmium, Total	mg/L	0.000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115		91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115		91.9	70 to 130	0.858	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046		98.3	70 to 130	1.28	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115		94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115		109	70 to 130	2.34	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115		94.4	70 to 130	2.04	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115		95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115		90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75		94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23		116	70 to 130	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX07796

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	40 to 60	0.00	5

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Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07797

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07797

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115	98.6	70 to 130	1.49	20	
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115	87.0	70 to 130	1.37	20	
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046	98.3	70 to 130	1.28	20	
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115	94.3	70 to 130	1.69	20	
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115	109	70 to 130	2.34	20	
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115	94.4	70 to 130	2.04	20	
AX07974	Cadmium, Total	mg/L	0.0000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115	91.8	70 to 130	1.30	20	
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115	91.9	70 to 130	0.858	20	
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15	103	70 to 130	0.712	20	
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115	96.3	70 to 130	0.352	20	
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115	91.7	70 to 130	1.30	20	
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115	95.7	70 to 130	1.43	20	
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115	90.1	70 to 130	0.877	20	
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75	94.0	70 to 130	0.855	20	
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23	116	70 to 130	0.00	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX07797

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX07798

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00179	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0668	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	J 0.0553	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	2		0.1	0.5	48.9	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	J 0.0453	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			50	328	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.12	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	10		14.0	50	82	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX07798

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115	87.0	70 to 130	1.37	20
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115	98.6	70 to 130	1.49	20
AX07974	Cadmium, Total	mg/L	0.000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115	91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115	91.9	70 to 130	0.858	20
AX07798	Mercury, Total by CVAA	mg/L	0.000104	0.0005	0.004	0.00393	0.00398	0.00400	0.0034 to 0.0046	98.3	70 to 130	1.28	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115	94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115	109	70 to 130	2.34	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115	94.4	70 to 130	2.04	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15	103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115	96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115	91.7	70 to 130	1.30	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115	95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115	90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75	94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23	116	70 to 130	0.00	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX07798

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	40 to 60	0.00	5

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Expiration: June 30, 2017

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
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-13D Dup

Laboratory ID Number: AX07799

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	J 0.00192	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0730	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	J 0.0543	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	48.4	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	J 0.0450	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		50	350	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.12	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		10	14.0	50	82	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-13D Dup

Laboratory ID Number: AX07799

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115		98.6	70 to 130	1.49	20
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115		87.0	70 to 130	1.37	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15		103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115		96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115		91.7	70 to 130	1.30	20
AX07974	Cadmium, Total	mg/L	0.0000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115		91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115		91.9	70 to 130	0.858	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115		95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115		90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75		94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23		116	70 to 130	0.00	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115		94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115		109	70 to 130	2.34	20
AX07974	Mercury, Total by CVAA	mg/L	0.000107	0.0005	0.004	0.00385	0.00400	0.00396	0.0034 to 0.0046		96.4	70 to 130	3.73	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115		94.4	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-13D Dup

Laboratory ID Number: AX07799

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	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, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX07800

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00148	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0160	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	0.121	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.0	5	234	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0829	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	0.292	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	J 0.000202	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C	1			125	2360	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	8.3	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	J 0.070	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	60		84.0	300	1700	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX07800

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115		87.0	70 to 130	1.37	20
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115		98.6	70 to 130	1.49	20
AX07974	Cadmium, Total	mg/L	0.000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115		91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115		91.9	70 to 130	0.858	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115		94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115		109	70 to 130	2.34	20
AX07974	Mercury, Total by CVAA	mg/L	0.000107	0.0005	0.004	0.00385	0.00400	0.00396	0.0034 to 0.0046		96.4	70 to 130	3.73	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115		94.4	70 to 130	2.04	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15		103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115		96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115		91.7	70 to 130	1.30	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115		95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115		90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75		94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23		116	70 to 130	0.00	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX07800

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	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, 2017

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: WMWMILAPEB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX07801

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	SES	4/10/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPEB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX07801

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115	98.6	70 to 130	1.49	20	
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115	87.0	70 to 130	1.37	20	
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15	103	70 to 130	0.712	20	
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115	96.3	70 to 130	0.352	20	
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115	91.7	70 to 130	1.30	20	
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115	94.3	70 to 130	1.69	20	
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115	109	70 to 130	2.34	20	
AX07974	Mercury, Total by CVAA	mg/L	0.000107	0.0005	0.004	0.00385	0.00400	0.00396	0.0034 to 0.0046	96.4	70 to 130	3.73	20	
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115	94.4	70 to 130	2.04	20	
AX07974	Cadmium, Total	mg/L	0.0000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115	91.8	70 to 130	1.30	20	
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115	91.9	70 to 130	0.858	20	
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115	95.7	70 to 130	1.43	20	
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115	90.1	70 to 130	0.877	20	
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75	94.0	70 to 130	0.855	20	
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23	116	70 to 130	0.00	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, 2017

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: WMWMILAPEB
 Sample Date: 04-Apr-17
 Customer ID:
 Delivery Date: 05-Apr-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX07801

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX07801	Solids, Dissolved	mg/L	-8.0	25			-4.0	55.0	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, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX07972

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00235	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0116	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	2.87	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	10		1.0	5	125	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	J 0.00226	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	0.203	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0812	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	4/12/2017	SM 2540C	1			100	1320	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	8.0	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	0.38	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	20		28.0	100	640	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX07972

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115		98.6	70 to 130	1.49	20
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115		87.0	70 to 130	1.37	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115		95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115		90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75		94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23		116	70 to 130	0.00	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15		103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115		96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115		91.7	70 to 130	1.30	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115		94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115		109	70 to 130	2.34	20
AX07974	Mercury, Total by CVAA	mg/L	0.000107	0.0005	0.004	0.00385	0.00400	0.00396	0.0034 to 0.0046		96.4	70 to 130	3.73	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115		94.4	70 to 130	2.04	20
AX07974	Cadmium, Total	mg/L	0.0000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115		91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115		91.9	70 to 130	0.858	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX07972

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07974	Solids, Dissolved	mg/L	4.00	25			189	50.0	40 to 60	1.56	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX07973

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	J 0.00321	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0175	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7	2		0.02	0.1	J 0.0777	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7	2		0.1	0.5	15.1	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	0.0216	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7	2		0.01	0.05	0.0906	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	4/12/2017	SM 2540C	1			25	315	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E	1		0.60	2.00	7.5	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C	1		0.032	0.10	J 0.070	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E	10		14.0	50	120	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX07973

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115		98.6	70 to 130	1.49	20
AX07974	Cadmium, Total	mg/L	0.000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115		91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115		91.9	70 to 130	0.858	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15		103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115		96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115		91.7	70 to 130	1.30	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115		95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115		90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75		94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23		116	70 to 130	0.00	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115		94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115		109	70 to 130	2.34	20
AX07974	Mercury, Total by CVAA	mg/L	0.000107	0.0005	0.004	0.00385	0.00400	0.00396	0.0034 to 0.0046		96.4	70 to 130	3.73	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115		94.4	70 to 130	2.04	20
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115		87.0	70 to 130	1.37	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, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX07973

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07974	Solids, Dissolved	mg/L	4.00	25			189	50.0	40 to 60	1.56	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX07974

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	0.0132	mg/L
* Beryllium, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	4/22/2017	EPA 200.7		2	0.02	0.1	0.367	mg/L
* Calcium, Total	HRG	4/22/2017	EPA 200.7		2	0.1	0.5	18.6	mg/L
* Cadmium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	4/14/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/13/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	4/22/2017	EPA 200.7		2	0.01	0.05	J 0.0343	mg/L
* Molybdenum, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	4/14/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	4/14/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	4/14/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	4/12/2017	SM 2540C		1		25	195	mg/L
* Chloride, Total, by Test America	SGC	4/24/2017	SM 4500 Cl_E		1	0.60	2.00	5.6	mg/L
* Fluoride, Total, by Test America	SGC	4/24/2017	SM 4500 F_C		1	0.032	0.10	0.20	mg/L
* Sulfate, Total, by Test America	SGC	4/24/2017	SM 4500 SO4_E		5	7.00	25	65	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX07974

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX07974	Chromium, Total	mg/L	0.00000109	0.0044	0.10	0.0986	0.0971	0.101	0.085 to 0.115		98.6	70 to 130	1.49	20
AX07974	Barium, Total	mg/L	-0.000000683	0.0044	0.10	0.100	0.0989	0.0924	0.085 to 0.115		87.0	70 to 130	1.37	20
AX07974	Antimony, Total	mg/L	0.0000443	0.00132	0.10	0.0943	0.0927	0.0957	0.085 to 0.115		94.3	70 to 130	1.69	20
AX07974	Cobalt, Total	mg/L	-0.000000470	0.0044	0.10	0.109	0.106	0.107	0.085 to 0.115		109	70 to 130	2.34	20
AX07974	Mercury, Total by CVAA	mg/L	0.000107	0.0005	0.004	0.00385	0.00400	0.00396	0.0034 to 0.0046		96.4	70 to 130	3.73	20
AX07974	Thallium, Total	mg/L	0.00000357	0.00044	0.10	0.0944	0.0964	0.0976	0.085 to 0.115		94.4	70 to 130	2.04	20
AX07974	Boron, Total	mg/L	-0.00727	0.044	1.00	1.40	1.41	1.01	0.85 to 1.15		103	70 to 130	0.712	20
AX07974	Lead, Total	mg/L	0.00000363	0.0022	0.10	0.0963	0.0967	0.0993	0.085 to 0.115		96.3	70 to 130	0.352	20
AX07974	Molybdenum, Total	mg/L	0.00000586	0.0044	0.10	0.0917	0.0905	0.0910	0.085 to 0.115		91.7	70 to 130	1.30	20
AX07974	Cadmium, Total	mg/L	0.0000000475	0.00044	0.10	0.0918	0.0906	0.0961	0.085 to 0.115		91.8	70 to 130	1.30	20
AX07974	Selenium, Total	mg/L	0.0000124	0.0044	0.10	0.0919	0.0911	0.0977	0.085 to 0.115		91.9	70 to 130	0.858	20
AX07974	Arsenic, Total	mg/L	0.00000762	0.0022	0.10	0.0957	0.0943	0.100	0.085 to 0.115		95.7	70 to 130	1.43	20
AX07974	Beryllium, Total	mg/L	0.00000379	0.00132	0.10	0.0901	0.0908	0.102	0.085 to 0.115		90.1	70 to 130	0.877	20
AX07974	Calcium, Total	mg/L	-0.0699	0.22	5.00	23.3	23.5	4.83	4.25 to 5.75		94.0	70 to 130	0.855	20
AX07974	Lithium, Total	mg/L	-0.0000968	0.022	0.200	0.267	0.267	0.212	0.17 to 0.23		116	70 to 130	0.00	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, 2017

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: WMWMILAP
 Sample Date: 06-Apr-17
 Customer ID:
 Delivery Date: 06-Apr-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX07974

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX07974	Solids, Dissolved	mg/L	4.00	25			189	50.0	40 to 60	1.56	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, 2017

Comments: Test America Pensacola NELAP ID: E81010

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 04/04/2017 12:00

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Ben Rothschild"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (500mL) Metals, Bottle 2 (250mL) Hg, Bottle 3 (500mL) TDS, Bottle 4 (500mL) Anions"/>		
Comments	<input type="text" value="All anions outsourced to Test America."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	04/03/2017	14:50	4	Groundwater		AX07712
MW-3S	04/03/2017	16:00	4	Groundwater		AX07713
MW-4	04/04/2017	08:00	4	Groundwater		AX07714
MW-4 DUP	04/04/2017	08:00	4	Sample Duplicate		AX07715
FB-1	04/04/2017	08:45	4	Field Blank		AX07716

Relinquished By	Received By	Date/Time
		04/04/2017 10:01
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.04.04 12:53:09 -0500'</small>	04/04/2017 12:53

SmarTroll ID <input type="text" value="4696-23441-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID <input type="text" value="3901-20010-2-2"/>	Cooler Temp <input type="text" value="1.2 degrees C"/>
	Thermometer ID <input type="text" value="5408-27568-2-2"/>
	pH Strip ID <input type="text" value="5521-28268-20-12"/>



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	Routine
Site Representative	Jeff K. Baker
Collector	Jason Rouss

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

Analysis Requested	Bottle 1 (500 mL): Metals, Bottle 2 (250 mL): Hg, Bottle 3 (500 mL): TDS, Bottle 4 (500 mL): Anions
Comments	All anions outsourced to Test America.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	04/03/2017	15:25	4	Groundwater		AX07717
MW-16	04/03/2017	17:18	4	Groundwater		AX07718
MW-11	04/04/2017	09:24	4	Groundwater		AX07719

Relinquished By	Received By	Date/Time
		04/04/2017 10:23
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.04.04 12:55:28 -0500</small>	04/04/2017 12:55

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

All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Cooler Temp	1.2 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	5521-28268-20-12



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 04/05/2017 08:30

Requested Complete Date	Routine
Site Representative	Jeff K. Baker
Collector	Ben Rothschild

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

Analysis Requested	Bottle 1 (500mL) Metals, Bottle 2 (250mL) Hg, Bottle 3 (500mL) TDS, Bottle 4 (500mL) Anions
Comments	All anions outsourced to Test America.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-7S	04/04/2017	10:37	4	Groundwater		AX07792
MW-7D	04/04/2017	11:35	4	Groundwater		AX07793
MW-14	04/04/2017	12:48	4	Groundwater		AX07794
MW-15	04/04/2017	14:43	4	Groundwater		AX07795

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.04.05 08:04:24 -05'00'</small>	04/05/2017 08:04

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp
		0.1 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		5521-28268-20-12



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer		
	Site Representative		Jeff K. Baker	Requested By	Greg Dyer
	Collector		Jason Rouss		Location
Analysis Requested	Bottle 1 (500 mL): Metals, Bottle 2 (250 mL): Hg, Bottle 3 (500 mL): TDS, Bottle 4 (500 mL): Anions				
Comments	All anions outsourced to Test America.				

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	04/04/2017	12:40	4	Groundwater		AX07796
FB-3	04/04/2017	13:10	4	Field Blank		AX07797
MW-13D	04/04/2017	14:43	4	Groundwater		AX07798
MW-13D Dup	04/04/2017	14:43	4	Sample Duplicate		AX07799
MW-2	04/04/2017	17:00	4	Groundwater		AX07800
EB-1	04/04/2017	17:50	4	Equipment Blank		AX07801

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.04.05 08:05:35 -05'00'</small>	04/05/2017 08:05

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp Thermometer ID pH Strip ID	
Turbidity ID	4677-23342-4-1		
			1.2 degrees C
			5408-27568-2-2
		5521-28268-20-12	



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 04/06/2017 15:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (500mL) Metals, Bottle 2 (250mL) Hg, Bottle 3 (500mL) TDS, Bottle 4 (500mL) Anions		
Comments	All anions outsourced to Test America.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	04/06/2017	10:03	4	Groundwater		AX07972
MW-13S	04/06/2017	11:18	4	Groundwater		AX07973
MW-9S	04/06/2017	12:46	4	Groundwater		AX07974

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.04.06 15:13:10 -05'00'</small>	04/06/2017 15:13

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp 0.2 degrees C Thermometer ID 5408-27568-2-2 pH Strip ID 5521-28268-20-12
Turbidity ID	3901-20010-2-2	



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

- Field Complete
- Lab Complete

Lab ETA 04/04/2017 16:32

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (500mL): Anions		
Comments	Relinquished to shipping lab in locked secured room. 040417 1633 Received from shipping lab. All anions outsourced to Test America.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8D	04/04/2017	11:48	4	Groundwater		AX07789
MW-9D	04/04/2017	13:19	4	Groundwater		AX07790
MW-8DDUP	04/04/2017	11:48	4	Sample Duplicate		AX07791

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Shipping LAB</i>	04/04/2017 16:48
<i>Shippinglab</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.04.05 08:01:23 -0500'</small>	04/05/2017 08:01

SmarTroll ID	5141-26150-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	
Cooler Temp	0.5 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	5521-28268-20-12	



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete

Lab Complete

Lab ETA 04/04/2017 12:00

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>		
	Site Representative		<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
	Collector		<input type="text" value="Anthony Goggins"/>		Location
Analysis Requested	<input type="text" value="Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (500mL): Anions"/>				
Comments	<input type="text" value="All anions outsourced to Test America."/>				

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	04/03/2017	14:48	4	Groundwater		AX07720
MW-5	04/03/2017	16:46	4	Groundwater		AX07721
MW-6	04/03/2017	17:52	4	Groundwater		AX07722
MW-8S	04/04/2017	10:18	4	Groundwater		AX07723
FB-2	04/04/2017	10:45	4	Field Blank		AX07724

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>SC</i>	04/04/2017 10:55
<i>Jeff K Baker</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.04.04 13:02:58 -0500'</small>	04/04/2017 13:02

SmarTroll ID	<input type="text" value="5141-26150-1-1"/>
Turbidity ID	<input type="text" value="3901-20009-2-1"/>

All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Cooler Temp	<input type="text" value="1.2 degrees C"/>
Thermometer ID	<input type="text" value="5408-27568-2-2"/>
pH Strip ID	<input type="text" value="5521-28268-20-12"/>

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: 400-136381-1

TestAmerica Sample Delivery Group: Miller Ash Pond (6)

Client Project/Site: CCR Plant Miller

Revision: 1

For:


Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

4/24/2017 9:47:30 AM

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 Miller

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Job ID: 400-136381-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-136381-1

General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX07712 MW-3D (400-136381-1), AX07714 MW-4 (400-136381-3) and AX07715 MW-4 DUP (400-136381-4). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 Cl- E: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 350274 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of <AffectedAnalytes> in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350323 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350453 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: AX07712 MW-3D (400-136381-1), AX07713 MW-3S (400-136381-2), AX07714 MW-4 (400-136381-3), AX07715 MW-4 DUP (400-136381-4), AX07717 MW-1 (400-136381-6), AX07718 MW-16 (400-136381-7), AX07719 MW-11 (400-136381-8), AX07720 PZ-5 (400-136381-9), AX07721 MW-5 (400-136381-10), AX07722 MW-6 (400-136381-11), AX07723 MW-8S (400-136381-12), AX07789 MW-8D (400-136381-14), AX07790 MW-9D (400-136381-15), AX07791 MW-8D DUP (400-136381-16), AX07792 MW-7S (400-136381-17), AX07793 MW-7D (400-136381-18), AX07794 MW-14 (400-136381-19), AX07795 MW-15 (400-136381-20), AX07796 MW-12 (400-136381-21), AX07798 MW-13D (400-136381-23), AX07799 MW-13D DUP (400-136381-24), AX07800 MW-2 (400-136381-25), AX07972 MW-10 (400-136381-27), AX07973 MW-13S (400-136381-28) and AX07974 MW-9S (400-136381-29). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350262 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 350352 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 350401 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 350456 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 350574 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.

Comments

Report revised per client request to change sample ID from AX07722 MW-5 (400-136381-11) as listed on coc, to AX07722 MW-6.

Detection Summary

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

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07712 MW-3D

Lab Sample ID: 400-136381-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	55		10	3.0	mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.28		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	860		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07713 MW-3S

Lab Sample ID: 400-136381-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31		2.0	0.60	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	180		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07714 MW-4

Lab Sample ID: 400-136381-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	50		4.0	1.2	mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.27		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	870		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07715 MW-4 DUP

Lab Sample ID: 400-136381-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	54		4.0	1.2	mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.29		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	920		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07716 FB-1

Lab Sample ID: 400-136381-5

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: AX07717 MW-1

Lab Sample ID: 400-136381-6

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	0.15		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	560		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07718 MW-16

Lab Sample ID: 400-136381-7

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	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	520		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07719 MW-11

Lab Sample ID: 400-136381-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	690		200	56	mg/L	40		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 Miller

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07720 PZ-5

Lab Sample ID: 400-136381-9

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	1.1		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	190		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07721 MW-5

Lab Sample ID: 400-136381-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	48		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.30		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1100	F1	200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07722 MW-6

Lab Sample ID: 400-136381-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29		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	550		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07723 MW-8S

Lab Sample ID: 400-136381-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.43		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	370		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07724 FB-2

Lab Sample ID: 400-136381-13

No Detections.

Client Sample ID: AX07789 MW-8D

Lab Sample ID: 400-136381-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.30		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	320		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07790 MW-9D

Lab Sample ID: 400-136381-15

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	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	530		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07791 MW-8D DUP

Lab Sample ID: 400-136381-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.29		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	360		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 Miller

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07792 MW-7S

Lab Sample ID: 400-136381-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24		2.0	0.60	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	260		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07793 MW-7D

Lab Sample ID: 400-136381-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		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	350		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07794 MW-14

Lab Sample ID: 400-136381-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.6		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	41		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07795 MW-15

Lab Sample ID: 400-136381-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		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	71	F1	50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07796 MW-12

Lab Sample ID: 400-136381-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.67		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1100		180	49	mg/L	35		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07797 FB-3

Lab Sample ID: 400-136381-22

No Detections.

Client Sample ID: AX07798 MW-13D

Lab Sample ID: 400-136381-23

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	0.12		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	82		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07799 MW-13D DUP

Lab Sample ID: 400-136381-24

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	0.12		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	82		50	14	mg/L	10		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 Miller

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07800 MW-2

Lab Sample ID: 400-136381-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.3		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	1700		300	84	mg/L	60		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07801 EB-1

Lab Sample ID: 400-136381-26

No Detections.

Client Sample ID: AX07972 MW-10

Lab Sample ID: 400-136381-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.38		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	640		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07973 MW-13S

Lab Sample ID: 400-136381-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.5		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	120		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX07974 MW-9S

Lab Sample ID: 400-136381-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.6		2.0	0.60	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	65	F1	25	7.0	mg/L	5		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 Miller

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

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 Miller

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-136381-1	AX07712 MW-3D	Water	04/03/17 14:50	04/10/17 08:48
400-136381-2	AX07713 MW-3S	Water	04/03/17 16:00	04/10/17 08:48
400-136381-3	AX07714 MW-4	Water	04/04/17 08:00	04/10/17 08:48
400-136381-4	AX07715 MW-4 DUP	Water	04/04/17 08:00	04/10/17 08:48
400-136381-5	AX07716 FB-1	Water	04/04/17 08:45	04/10/17 08:48
400-136381-6	AX07717 MW-1	Water	04/03/17 15:25	04/10/17 08:48
400-136381-7	AX07718 MW-16	Water	04/03/17 17:18	04/10/17 08:48
400-136381-8	AX07719 MW-11	Water	04/04/17 09:24	04/10/17 08:48
400-136381-9	AX07720 PZ-5	Water	04/03/17 14:48	04/10/17 08:48
400-136381-10	AX07721 MW-5	Water	04/03/17 16:46	04/10/17 08:48
400-136381-11	AX07722 MW-6	Water	04/03/17 17:52	04/10/17 08:48
400-136381-12	AX07723 MW-8S	Water	04/04/17 10:18	04/10/17 08:48
400-136381-13	AX07724 FB-2	Water	04/04/17 10:45	04/10/17 08:48
400-136381-14	AX07789 MW-8D	Water	04/04/17 11:48	04/10/17 08:48
400-136381-15	AX07790 MW-9D	Water	04/04/17 13:19	04/10/17 08:48
400-136381-16	AX07791 MW-8D DUP	Water	04/04/17 11:48	04/10/17 08:48
400-136381-17	AX07792 MW-7S	Water	04/04/17 10:37	04/10/17 08:48
400-136381-18	AX07793 MW-7D	Water	04/04/17 11:35	04/10/17 08:48
400-136381-19	AX07794 MW-14	Water	04/04/17 12:48	04/10/17 08:48
400-136381-20	AX07795 MW-15	Water	04/04/17 14:43	04/10/17 08:48
400-136381-21	AX07796 MW-12	Water	04/04/17 12:40	04/10/17 08:48
400-136381-22	AX07797 FB-3	Water	04/04/17 13:10	04/10/17 08:48
400-136381-23	AX07798 MW-13D	Water	04/04/17 14:43	04/10/17 08:48
400-136381-24	AX07799 MW-13D DUP	Water	04/04/17 14:43	04/10/17 08:48
400-136381-25	AX07800 MW-2	Water	04/04/17 17:00	04/10/17 08:48
400-136381-26	AX07801 EB-1	Water	04/04/17 17:50	04/10/17 08:48
400-136381-27	AX07972 MW-10	Water	04/06/17 10:03	04/10/17 08:48
400-136381-28	AX07973 MW-13S	Water	04/06/17 11:18	04/10/17 08:48
400-136381-29	AX07974 MW-9S	Water	04/06/17 12:46	04/10/17 08:48

Client Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07712 MW-3D

Lab Sample ID: 400-136381-1

Date Collected: 04/03/17 14:50

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55		10	3.0	mg/L			04/18/17 13:38	5
Fluoride	0.28		0.10	0.032	mg/L			04/14/17 15:44	1
Sulfate	860		150	42	mg/L			04/19/17 08:23	30

Client Sample ID: AX07713 MW-3S

Lab Sample ID: 400-136381-2

Date Collected: 04/03/17 16:00

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		2.0	0.60	mg/L			04/18/17 13:21	1
Fluoride	0.25		0.10	0.032	mg/L			04/14/17 15:46	1
Sulfate	180		100	28	mg/L			04/19/17 08:44	20

Client Sample ID: AX07714 MW-4

Lab Sample ID: 400-136381-3

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		4.0	1.2	mg/L			04/18/17 16:12	2
Fluoride	0.27		0.10	0.032	mg/L			04/14/17 15:42	1
Sulfate	870		200	56	mg/L			04/18/17 16:18	40

Client Sample ID: AX07715 MW-4 DUP

Lab Sample ID: 400-136381-4

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54		4.0	1.2	mg/L			04/18/17 16:32	2
Fluoride	0.29		0.10	0.032	mg/L			04/17/17 09:42	1
Sulfate	920		200	56	mg/L			04/18/17 16:18	40

Client Sample ID: AX07716 FB-1

Lab Sample ID: 400-136381-5

Date Collected: 04/04/17 08:45

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			04/18/17 15:36	1
Fluoride	<0.032		0.10	0.032	mg/L			04/17/17 09:39	1
Sulfate	1.4	J	5.0	1.4	mg/L			04/18/17 15:42	1

Client Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07717 MW-1

Lab Sample ID: 400-136381-6

Date Collected: 04/03/17 15:25

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		2.0	0.60	mg/L			04/18/17 13:21	1
Fluoride	0.15		0.10	0.032	mg/L			04/17/17 09:33	1
Sulfate	560		150	42	mg/L			04/19/17 08:44	30

Client Sample ID: AX07718 MW-16

Lab Sample ID: 400-136381-7

Date Collected: 04/03/17 17:18

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	0.60	mg/L			04/18/17 13:21	1
Fluoride	0.13		0.10	0.032	mg/L			04/17/17 09:37	1
Sulfate	520		150	42	mg/L			04/19/17 08:44	30

Client Sample ID: AX07719 MW-11

Lab Sample ID: 400-136381-8

Date Collected: 04/04/17 09:24

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		2.0	0.60	mg/L			04/18/17 15:44	1
Fluoride	0.14		0.10	0.032	mg/L			04/17/17 09:35	1
Sulfate	690		200	56	mg/L			04/18/17 16:18	40

Client Sample ID: AX07720 PZ-5

Lab Sample ID: 400-136381-9

Date Collected: 04/03/17 14:48

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		2.0	0.60	mg/L			04/18/17 13:21	1
Fluoride	1.1		0.10	0.032	mg/L			04/17/17 10:10	1
Sulfate	190		100	28	mg/L			04/19/17 08:44	20

Client Sample ID: AX07721 MW-5

Lab Sample ID: 400-136381-10

Date Collected: 04/03/17 16:46

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48		2.0	0.60	mg/L			04/18/17 13:21	1
Fluoride	0.30		0.10	0.032	mg/L			04/14/17 14:40	1
Sulfate	1100	F1	200	56	mg/L			04/19/17 09:02	40

Client Sample ID: AX07722 MW-6

Lab Sample ID: 400-136381-11

Date Collected: 04/03/17 17:52

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		2.0	0.60	mg/L			04/18/17 13:21	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07722 MW-6

Lab Sample ID: 400-136381-11

Date Collected: 04/03/17 17:52

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.070	J	0.10	0.032	mg/L			04/17/17 09:53	1
Sulfate	550		150	42	mg/L			04/19/17 08:47	30

Client Sample ID: AX07723 MW-8S

Lab Sample ID: 400-136381-12

Date Collected: 04/04/17 10:18

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		2.0	0.60	mg/L			04/18/17 15:44	1
Fluoride	0.43		0.10	0.032	mg/L			04/17/17 09:57	1
Sulfate	370		200	56	mg/L			04/18/17 17:02	40

Client Sample ID: AX07724 FB-2

Lab Sample ID: 400-136381-13

Date Collected: 04/04/17 10:45

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60	F1	2.0	0.60	mg/L			04/18/17 15:44	1
Fluoride	<0.032		0.10	0.032	mg/L			04/17/17 10:04	1
Sulfate	<1.4		5.0	1.4	mg/L			04/18/17 15:42	1

Client Sample ID: AX07789 MW-8D

Lab Sample ID: 400-136381-14

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		2.0	0.60	mg/L			04/18/17 15:44	1
Fluoride	0.30		0.10	0.032	mg/L			04/17/17 09:59	1
Sulfate	320		200	56	mg/L			04/18/17 17:02	40

Client Sample ID: AX07790 MW-9D

Lab Sample ID: 400-136381-15

Date Collected: 04/04/17 13:19

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			04/18/17 17:08	1
Fluoride	0.11		0.10	0.032	mg/L			04/17/17 10:02	1
Sulfate	530		100	28	mg/L			04/18/17 17:29	20

Client Sample ID: AX07791 MW-8D DUP

Lab Sample ID: 400-136381-16

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		2.0	0.60	mg/L			04/18/17 17:08	1
Fluoride	0.29		0.10	0.032	mg/L			04/17/17 10:08	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07791 MW-8D DUP

Lab Sample ID: 400-136381-16

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	360		100	28	mg/L			04/18/17 17:29	20

Client Sample ID: AX07792 MW-7S

Lab Sample ID: 400-136381-17

Date Collected: 04/04/17 10:37

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		2.0	0.60	mg/L			04/18/17 17:08	1
Fluoride	0.20		0.10	0.032	mg/L			04/17/17 10:06	1
Sulfate	260		100	28	mg/L			04/18/17 17:29	20

Client Sample ID: AX07793 MW-7D

Lab Sample ID: 400-136381-18

Date Collected: 04/04/17 11:35

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	0.60	mg/L			04/18/17 17:09	1
Fluoride	0.090	J	0.10	0.032	mg/L			04/17/17 09:44	1
Sulfate	350		100	28	mg/L			04/18/17 17:29	20

Client Sample ID: AX07794 MW-14

Lab Sample ID: 400-136381-19

Date Collected: 04/04/17 12:48

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		2.0	0.60	mg/L			04/18/17 17:09	1
Fluoride	0.17		0.10	0.032	mg/L			04/17/17 16:30	1
Sulfate	41		25	7.0	mg/L			04/18/17 17:46	5

Client Sample ID: AX07795 MW-15

Lab Sample ID: 400-136381-20

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		2.0	0.60	mg/L			04/19/17 09:58	1
Fluoride	0.10		0.10	0.032	mg/L			04/17/17 09:27	1
Sulfate	71	F1	50	14	mg/L			04/19/17 10:52	10

Client Sample ID: AX07796 MW-12

Lab Sample ID: 400-136381-21

Date Collected: 04/04/17 12:40

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		2.0	0.60	mg/L			04/19/17 09:58	1
Fluoride	0.67		0.10	0.032	mg/L			04/17/17 16:12	1
Sulfate	1100		180	49	mg/L			04/19/17 10:52	35

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07797 FB-3

Lab Sample ID: 400-136381-22

Date Collected: 04/04/17 13:10

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			04/19/17 10:01	1
Fluoride	<0.032		0.10	0.032	mg/L			04/17/17 16:28	1
Sulfate	<1.4		5.0	1.4	mg/L			04/19/17 10:03	1

Client Sample ID: AX07798 MW-13D

Lab Sample ID: 400-136381-23

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			04/19/17 10:01	1
Fluoride	0.12		0.10	0.032	mg/L			04/17/17 16:26	1
Sulfate	82		50	14	mg/L			04/19/17 10:53	10

Client Sample ID: AX07799 MW-13D DUP

Lab Sample ID: 400-136381-24

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			04/19/17 10:33	1
Fluoride	0.12		0.10	0.032	mg/L			04/17/17 16:24	1
Sulfate	82		50	14	mg/L			04/19/17 11:17	10

Client Sample ID: AX07800 MW-2

Lab Sample ID: 400-136381-25

Date Collected: 04/04/17 17:00

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		2.0	0.60	mg/L			04/19/17 10:33	1
Fluoride	0.070	J	0.10	0.032	mg/L			04/17/17 16:22	1
Sulfate	1700		300	84	mg/L			04/19/17 11:37	60

Client Sample ID: AX07801 EB-1

Lab Sample ID: 400-136381-26

Date Collected: 04/04/17 17:50

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			04/19/17 10:33	1
Fluoride	<0.032		0.10	0.032	mg/L			04/17/17 16:20	1
Sulfate	<1.4		5.0	1.4	mg/L			04/19/17 10:40	1

Client Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07972 MW-10

Lab Sample ID: 400-136381-27

Date Collected: 04/06/17 10:03

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		2.0	0.60	mg/L			04/19/17 14:12	1
Fluoride	0.38		0.10	0.032	mg/L			04/17/17 16:18	1
Sulfate	640		100	28	mg/L			04/20/17 10:20	20

Client Sample ID: AX07973 MW-13S

Lab Sample ID: 400-136381-28

Date Collected: 04/06/17 11:18

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		2.0	0.60	mg/L			04/19/17 14:12	1
Fluoride	0.070	J	0.10	0.032	mg/L			04/17/17 16:51	1
Sulfate	120		50	14	mg/L			04/20/17 10:20	10

Client Sample ID: AX07974 MW-9S

Lab Sample ID: 400-136381-29

Date Collected: 04/06/17 12:46

Matrix: Water

Date Received: 04/10/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		2.0	0.60	mg/L			04/20/17 08:49	1
Fluoride	0.20		0.10	0.032	mg/L			04/14/17 15:27	1
Sulfate	65	F1	25	7.0	mg/L			04/20/17 09:42	5

Definitions/Glossary

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

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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 Miller

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07712 MW-3D

Lab Sample ID: 400-136381-1

Date Collected: 04/03/17 14:50

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		5	350274	04/18/17 13:38	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	349816	04/14/17 15:44	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	350352	04/19/17 08:23	BJB	TAL PEN

Client Sample ID: AX07713 MW-3S

Lab Sample ID: 400-136381-2

Date Collected: 04/03/17 16:00

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350274	04/18/17 13:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	349816	04/14/17 15:46	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350352	04/19/17 08:44	BJB	TAL PEN

Client Sample ID: AX07714 MW-4

Lab Sample ID: 400-136381-3

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	350323	04/18/17 16:12	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	349816	04/14/17 15:42	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	350324	04/18/17 16:18	BJB	TAL PEN

Client Sample ID: AX07715 MW-4 DUP

Lab Sample ID: 400-136381-4

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	350323	04/18/17 16:32	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:42	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	350324	04/18/17 16:18	BJB	TAL PEN

Client Sample ID: AX07716 FB-1

Lab Sample ID: 400-136381-5

Date Collected: 04/04/17 08:45

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 15:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:39	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	350324	04/18/17 15:42	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07717 MW-1

Lab Sample ID: 400-136381-6

Date Collected: 04/03/17 15:25

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350274	04/18/17 13:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:33	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	350352	04/19/17 08:44	BJB	TAL PEN

Client Sample ID: AX07718 MW-16

Lab Sample ID: 400-136381-7

Date Collected: 04/03/17 17:18

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350274	04/18/17 13:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:37	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	350352	04/19/17 08:44	BJB	TAL PEN

Client Sample ID: AX07719 MW-11

Lab Sample ID: 400-136381-8

Date Collected: 04/04/17 09:24

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 15:44	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:35	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	350324	04/18/17 16:18	BJB	TAL PEN

Client Sample ID: AX07720 PZ-5

Lab Sample ID: 400-136381-9

Date Collected: 04/03/17 14:48

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350274	04/18/17 13:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 10:10	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350352	04/19/17 08:44	BJB	TAL PEN

Client Sample ID: AX07721 MW-5

Lab Sample ID: 400-136381-10

Date Collected: 04/03/17 16:46

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350274	04/18/17 13:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	349816	04/14/17 14:40	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	350352	04/19/17 09:02	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07722 MW-6

Lab Sample ID: 400-136381-11

Date Collected: 04/03/17 17:52

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350274	04/18/17 13:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:53	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	350352	04/19/17 08:47	BJB	TAL PEN

Client Sample ID: AX07723 MW-8S

Lab Sample ID: 400-136381-12

Date Collected: 04/04/17 10:18

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 15:44	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:57	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	350324	04/18/17 17:02	BJB	TAL PEN

Client Sample ID: AX07724 FB-2

Lab Sample ID: 400-136381-13

Date Collected: 04/04/17 10:45

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 15:44	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 10:04	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	350324	04/18/17 15:42	BJB	TAL PEN

Client Sample ID: AX07789 MW-8D

Lab Sample ID: 400-136381-14

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 15:44	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:59	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	350324	04/18/17 17:02	BJB	TAL PEN

Client Sample ID: AX07790 MW-9D

Lab Sample ID: 400-136381-15

Date Collected: 04/04/17 13:19

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 17:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 10:02	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350324	04/18/17 17:29	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-136381-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07791 MW-8D DUP

Lab Sample ID: 400-136381-16

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 17:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 10:08	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350324	04/18/17 17:29	BJB	TAL PEN

Client Sample ID: AX07792 MW-7S

Lab Sample ID: 400-136381-17

Date Collected: 04/04/17 10:37

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 17:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 10:06	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350324	04/18/17 17:29	BJB	TAL PEN

Client Sample ID: AX07793 MW-7D

Lab Sample ID: 400-136381-18

Date Collected: 04/04/17 11:35

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 17:09	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:44	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350324	04/18/17 17:29	BJB	TAL PEN

Client Sample ID: AX07794 MW-14

Lab Sample ID: 400-136381-19

Date Collected: 04/04/17 12:48

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350323	04/18/17 17:09	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	350324	04/18/17 17:46	BJB	TAL PEN

Client Sample ID: AX07795 MW-15

Lab Sample ID: 400-136381-20

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 09:58	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350018	04/17/17 09:27	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	350401	04/19/17 10:52	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07796 MW-12

Lab Sample ID: 400-136381-21

Date Collected: 04/04/17 12:40

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 09:58	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:12	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	350401	04/19/17 10:52	BJB	TAL PEN

Client Sample ID: AX07797 FB-3

Lab Sample ID: 400-136381-22

Date Collected: 04/04/17 13:10

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 10:01	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:28	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	350401	04/19/17 10:03	BJB	TAL PEN

Client Sample ID: AX07798 MW-13D

Lab Sample ID: 400-136381-23

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 10:01	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:26	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	350401	04/19/17 10:53	BJB	TAL PEN

Client Sample ID: AX07799 MW-13D DUP

Lab Sample ID: 400-136381-24

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 10:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:24	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	350401	04/19/17 11:17	BJB	TAL PEN

Client Sample ID: AX07800 MW-2

Lab Sample ID: 400-136381-25

Date Collected: 04/04/17 17:00

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 10:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:22	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		60	350401	04/19/17 11:37	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07801 EB-1

Lab Sample ID: 400-136381-26

Date Collected: 04/04/17 17:50

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350405	04/19/17 10:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:20	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	350401	04/19/17 10:40	BJB	TAL PEN

Client Sample ID: AX07972 MW-10

Lab Sample ID: 400-136381-27

Date Collected: 04/06/17 10:03

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350453	04/19/17 14:12	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:18	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	350574	04/20/17 10:20	BJB	TAL PEN

Client Sample ID: AX07973 MW-13S

Lab Sample ID: 400-136381-28

Date Collected: 04/06/17 11:18

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350453	04/19/17 14:12	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	350122	04/17/17 16:51	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	350574	04/20/17 10:20	BJB	TAL PEN

Client Sample ID: AX07974 MW-9S

Lab Sample ID: 400-136381-29

Date Collected: 04/06/17 12:46

Matrix: Water

Date Received: 04/10/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	350581	04/20/17 08:49	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	349816	04/14/17 15:27	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	350574	04/20/17 09:42	BJB	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 Miller

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

General Chemistry

Analysis Batch: 349816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-1	AX07712 MW-3D	Total/NA	Water	SM 4500 F C	
400-136381-2	AX07713 MW-3S	Total/NA	Water	SM 4500 F C	
400-136381-3	AX07714 MW-4	Total/NA	Water	SM 4500 F C	
400-136381-10	AX07721 MW-5	Total/NA	Water	SM 4500 F C	
400-136381-29	AX07974 MW-9S	Total/NA	Water	SM 4500 F C	
MB 400-349816/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-349816/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-136381-10 MS	AX07721 MW-5	Total/NA	Water	SM 4500 F C	
400-136381-10 MSD	AX07721 MW-5	Total/NA	Water	SM 4500 F C	
400-136381-29 MS	AX07974 MW-9S	Total/NA	Water	SM 4500 F C	
400-136381-29 MSD	AX07974 MW-9S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 350018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-4	AX07715 MW-4 DUP	Total/NA	Water	SM 4500 F C	
400-136381-5	AX07716 FB-1	Total/NA	Water	SM 4500 F C	
400-136381-6	AX07717 MW-1	Total/NA	Water	SM 4500 F C	
400-136381-7	AX07718 MW-16	Total/NA	Water	SM 4500 F C	
400-136381-8	AX07719 MW-11	Total/NA	Water	SM 4500 F C	
400-136381-9	AX07720 PZ-5	Total/NA	Water	SM 4500 F C	
400-136381-11	AX07722 MW-6	Total/NA	Water	SM 4500 F C	
400-136381-12	AX07723 MW-8S	Total/NA	Water	SM 4500 F C	
400-136381-13	AX07724 FB-2	Total/NA	Water	SM 4500 F C	
400-136381-14	AX07789 MW-8D	Total/NA	Water	SM 4500 F C	
400-136381-15	AX07790 MW-9D	Total/NA	Water	SM 4500 F C	
400-136381-16	AX07791 MW-8D DUP	Total/NA	Water	SM 4500 F C	
400-136381-17	AX07792 MW-7S	Total/NA	Water	SM 4500 F C	
400-136381-18	AX07793 MW-7D	Total/NA	Water	SM 4500 F C	
400-136381-20	AX07795 MW-15	Total/NA	Water	SM 4500 F C	
MB 400-350018/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-350018/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-136381-20 MS	AX07795 MW-15	Total/NA	Water	SM 4500 F C	
400-136381-20 MSD	AX07795 MW-15	Total/NA	Water	SM 4500 F C	
400-136381-11 DU	AX07722 MW-6	Total/NA	Water	SM 4500 F C	

Analysis Batch: 350122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-19	AX07794 MW-14	Total/NA	Water	SM 4500 F C	
400-136381-21	AX07796 MW-12	Total/NA	Water	SM 4500 F C	
400-136381-22	AX07797 FB-3	Total/NA	Water	SM 4500 F C	
400-136381-23	AX07798 MW-13D	Total/NA	Water	SM 4500 F C	
400-136381-24	AX07799 MW-13D DUP	Total/NA	Water	SM 4500 F C	
400-136381-25	AX07800 MW-2	Total/NA	Water	SM 4500 F C	
400-136381-26	AX07801 EB-1	Total/NA	Water	SM 4500 F C	
400-136381-27	AX07972 MW-10	Total/NA	Water	SM 4500 F C	
400-136381-28	AX07973 MW-13S	Total/NA	Water	SM 4500 F C	
MB 400-350122/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-350122/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-136381-21 MS	AX07796 MW-12	Total/NA	Water	SM 4500 F C	
400-136381-21 MSD	AX07796 MW-12	Total/NA	Water	SM 4500 F C	
400-136381-28 DU	AX07973 MW-13S	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Analysis Batch: 350274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-1	AX07712 MW-3D	Total/NA	Water	SM 4500 Cl- E	
400-136381-2	AX07713 MW-3S	Total/NA	Water	SM 4500 Cl- E	
400-136381-6	AX07717 MW-1	Total/NA	Water	SM 4500 Cl- E	
400-136381-7	AX07718 MW-16	Total/NA	Water	SM 4500 Cl- E	
400-136381-9	AX07720 PZ-5	Total/NA	Water	SM 4500 Cl- E	
400-136381-10	AX07721 MW-5	Total/NA	Water	SM 4500 Cl- E	
400-136381-11	AX07722 MW-6	Total/NA	Water	SM 4500 Cl- E	
MB 400-350274/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-350274/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-350274/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-136381-10 MS	AX07721 MW-5	Total/NA	Water	SM 4500 Cl- E	
400-136381-10 MSD	AX07721 MW-5	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 350323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-3	AX07714 MW-4	Total/NA	Water	SM 4500 Cl- E	
400-136381-4	AX07715 MW-4 DUP	Total/NA	Water	SM 4500 Cl- E	
400-136381-5	AX07716 FB-1	Total/NA	Water	SM 4500 Cl- E	
400-136381-8	AX07719 MW-11	Total/NA	Water	SM 4500 Cl- E	
400-136381-12	AX07723 MW-8S	Total/NA	Water	SM 4500 Cl- E	
400-136381-13	AX07724 FB-2	Total/NA	Water	SM 4500 Cl- E	
400-136381-14	AX07789 MW-8D	Total/NA	Water	SM 4500 Cl- E	
400-136381-15	AX07790 MW-9D	Total/NA	Water	SM 4500 Cl- E	
400-136381-16	AX07791 MW-8D DUP	Total/NA	Water	SM 4500 Cl- E	
400-136381-17	AX07792 MW-7S	Total/NA	Water	SM 4500 Cl- E	
400-136381-18	AX07793 MW-7D	Total/NA	Water	SM 4500 Cl- E	
400-136381-19	AX07794 MW-14	Total/NA	Water	SM 4500 Cl- E	
MB 400-350323/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-350323/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-350323/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-136381-13 MS	AX07724 FB-2	Total/NA	Water	SM 4500 Cl- E	
400-136381-13 MSD	AX07724 FB-2	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 350324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-3	AX07714 MW-4	Total/NA	Water	SM 4500 SO4 E	
400-136381-4	AX07715 MW-4 DUP	Total/NA	Water	SM 4500 SO4 E	
400-136381-5	AX07716 FB-1	Total/NA	Water	SM 4500 SO4 E	
400-136381-8	AX07719 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-136381-12	AX07723 MW-8S	Total/NA	Water	SM 4500 SO4 E	
400-136381-13	AX07724 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-136381-14	AX07789 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-136381-15	AX07790 MW-9D	Total/NA	Water	SM 4500 SO4 E	
400-136381-16	AX07791 MW-8D DUP	Total/NA	Water	SM 4500 SO4 E	
400-136381-17	AX07792 MW-7S	Total/NA	Water	SM 4500 SO4 E	
400-136381-18	AX07793 MW-7D	Total/NA	Water	SM 4500 SO4 E	
400-136381-19	AX07794 MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 400-350324/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-350324/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-350324/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-136381-13 MS	AX07724 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-136381-13 MSD	AX07724 FB-2	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

General Chemistry (Continued)

Analysis Batch: 350352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-1	AX07712 MW-3D	Total/NA	Water	SM 4500 SO4 E	
400-136381-2	AX07713 MW-3S	Total/NA	Water	SM 4500 SO4 E	
400-136381-6	AX07717 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-136381-7	AX07718 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-136381-9	AX07720 PZ-5	Total/NA	Water	SM 4500 SO4 E	
400-136381-10	AX07721 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-136381-11	AX07722 MW-6	Total/NA	Water	SM 4500 SO4 E	
MB 400-350352/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-350352/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-350352/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-136381-10 MS	AX07721 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-136381-10 MSD	AX07721 MW-5	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 350401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-20	AX07795 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-136381-21	AX07796 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-136381-22	AX07797 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-136381-23	AX07798 MW-13D	Total/NA	Water	SM 4500 SO4 E	
400-136381-24	AX07799 MW-13D DUP	Total/NA	Water	SM 4500 SO4 E	
400-136381-25	AX07800 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-136381-26	AX07801 EB-1	Total/NA	Water	SM 4500 SO4 E	
MB 400-350401/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-350401/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-350401/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-136381-20 MS	AX07795 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-136381-20 MSD	AX07795 MW-15	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 350405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-20	AX07795 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-136381-21	AX07796 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-136381-22	AX07797 FB-3	Total/NA	Water	SM 4500 Cl- E	
400-136381-23	AX07798 MW-13D	Total/NA	Water	SM 4500 Cl- E	
400-136381-24	AX07799 MW-13D DUP	Total/NA	Water	SM 4500 Cl- E	
400-136381-25	AX07800 MW-2	Total/NA	Water	SM 4500 Cl- E	
400-136381-26	AX07801 EB-1	Total/NA	Water	SM 4500 Cl- E	
MB 400-350405/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-350405/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-350405/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-136381-20 MS	AX07795 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-136381-20 MSD	AX07795 MW-15	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 350453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-27	AX07972 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-136381-28	AX07973 MW-13S	Total/NA	Water	SM 4500 Cl- E	
MB 400-350453/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-350453/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-350453/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-136145-Q-6 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

General Chemistry (Continued)

Analysis Batch: 350453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136145-Q-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 350574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-27	AX07972 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-136381-28	AX07973 MW-13S	Total/NA	Water	SM 4500 SO4 E	
400-136381-29	AX07974 MW-9S	Total/NA	Water	SM 4500 SO4 E	
MB 400-350574/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-350574/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-350574/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-136381-29 MS	AX07974 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-136381-29 MSD	AX07974 MW-9S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 350581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136381-29	AX07974 MW-9S	Total/NA	Water	SM 4500 Cl- E	
MB 400-350581/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-350581/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-350581/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-136381-29 MS	AX07974 MW-9S	Total/NA	Water	SM 4500 Cl- E	
400-136381-29 MSD	AX07974 MW-9S	Total/NA	Water	SM 4500 Cl- E	

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-350274/6
Matrix: Water
Analysis Batch: 350274

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			04/18/17 11:13	1

Lab Sample ID: LCS 400-350274/7
Matrix: Water
Analysis Batch: 350274

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	31.9		mg/L		106	90 - 110

Lab Sample ID: MRL 400-350274/3
Matrix: Water
Analysis Batch: 350274

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	1.51	J	mg/L		76	50 - 150

Lab Sample ID: 400-136381-10 MS
Matrix: Water
Analysis Batch: 350274

Client Sample ID: AX07721 MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	48		10.0	55.6	4	mg/L		79	73 - 120

Lab Sample ID: 400-136381-10 MSD
Matrix: Water
Analysis Batch: 350274

Client Sample ID: AX07721 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	48		10.0	55.4	4	mg/L		77	73 - 120	0	8

Lab Sample ID: MB 400-350323/6
Matrix: Water
Analysis Batch: 350323

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			04/18/17 15:02	1

Lab Sample ID: LCS 400-350323/7
Matrix: Water
Analysis Batch: 350323

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 400-350323/3
Matrix: Water
Analysis Batch: 350323

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	1.68	J	mg/L		84	50 - 150

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Lab Sample ID: 400-136381-13 MS
Matrix: Water
Analysis Batch: 350323

Client Sample ID: AX07724 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.60	F1	10.0	12.2	F1	mg/L		122	73 - 120

Lab Sample ID: 400-136381-13 MSD
Matrix: Water
Analysis Batch: 350323

Client Sample ID: AX07724 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	<0.60	F1	10.0	12.5	F1	mg/L		125	73 - 120	2	8

Lab Sample ID: MB 400-350405/6
Matrix: Water
Analysis Batch: 350405

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			04/19/17 09:24	1

Lab Sample ID: LCS 400-350405/7
Matrix: Water
Analysis Batch: 350405

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 400-350405/3
Matrix: Water
Analysis Batch: 350405

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	2.80		mg/L		140	50 - 150

Lab Sample ID: 400-136381-20 MS
Matrix: Water
Analysis Batch: 350405

Client Sample ID: AX07795 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19		10.0	29.9		mg/L		113	73 - 120

Lab Sample ID: 400-136381-20 MSD
Matrix: Water
Analysis Batch: 350405

Client Sample ID: AX07795 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	19		10.0	27.5		mg/L		90	73 - 120	8	8

Lab Sample ID: MB 400-350453/6
Matrix: Water
Analysis Batch: 350453

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			04/19/17 12:08	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-350453/7
Matrix: Water
Analysis Batch: 350453

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	32.1		mg/L		107	90 - 110

Lab Sample ID: MRL 400-350453/3
Matrix: Water
Analysis Batch: 350453

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	2.23		mg/L		112	50 - 150

Lab Sample ID: 400-136145-Q-6 MS
Matrix: Water
Analysis Batch: 350453

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	240		10.0	145	4	mg/L		-930	73 - 120

Lab Sample ID: 400-136145-Q-6 MSD
Matrix: Water
Analysis Batch: 350453

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	Limit
Chloride	240		10.0	143	4	mg/L		-953	73 - 120	2	8

Lab Sample ID: MB 400-350581/6
Matrix: Water
Analysis Batch: 350581

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			04/20/17 08:03	1

Lab Sample ID: LCS 400-350581/7
Matrix: Water
Analysis Batch: 350581

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 400-350581/3
Matrix: Water
Analysis Batch: 350581

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	1.63	J	mg/L		81	50 - 150

Lab Sample ID: 400-136381-29 MS
Matrix: Water
Analysis Batch: 350581

Client Sample ID: AX07974 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.6		10.0	13.9		mg/L		83	73 - 120

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Lab Sample ID: 400-136381-29 MSD
Matrix: Water
Analysis Batch: 350581

Client Sample ID: AX07974 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.6		10.0	13.8		mg/L		82	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-349816/3
Matrix: Water
Analysis Batch: 349816

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			04/14/17 14:31	1

Lab Sample ID: LCS 400-349816/4
Matrix: Water
Analysis Batch: 349816

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	3.90		mg/L		98	90 - 110

Lab Sample ID: 400-136381-10 MS
Matrix: Water
Analysis Batch: 349816

Client Sample ID: AX07721 MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.30		1.00	1.28		mg/L		98	75 - 125

Lab Sample ID: 400-136381-10 MSD
Matrix: Water
Analysis Batch: 349816

Client Sample ID: AX07721 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
Fluoride	0.30		1.00	1.28		mg/L		98	75 - 125	0	4

Lab Sample ID: MB 400-350018/3
Matrix: Water
Analysis Batch: 350018

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			04/17/17 09:19	1

Lab Sample ID: LCS 400-350018/4
Matrix: Water
Analysis Batch: 350018

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	4.22		mg/L		106	90 - 110

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-136381-20 MS

Matrix: Water
Analysis Batch: 350018

Client Sample ID: AX07795 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.10		1.00	1.14		mg/L		104	75 - 125

Lab Sample ID: 400-136381-20 MSD

Matrix: Water
Analysis Batch: 350018

Client Sample ID: AX07795 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
Fluoride	0.10		1.00	1.17		mg/L		107	75 - 125	3	4

Lab Sample ID: 400-136381-11 DU

Matrix: Water
Analysis Batch: 350018

Client Sample ID: AX07722 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.070	J	0.0700	J	mg/L		0	4

Lab Sample ID: MB 400-350122/3

Matrix: Water
Analysis Batch: 350122

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			04/17/17 16:04	1

Lab Sample ID: LCS 400-350122/4

Matrix: Water
Analysis Batch: 350122

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	3.98		mg/L		100	90 - 110

Lab Sample ID: 400-136381-21 MS

Matrix: Water
Analysis Batch: 350122

Client Sample ID: AX07796 MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.67		1.00	1.71		mg/L		104	75 - 125

Lab Sample ID: 400-136381-21 MSD

Matrix: Water
Analysis Batch: 350122

Client Sample ID: AX07796 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
Fluoride	0.67		1.00	1.78		mg/L		111	75 - 125	4	4

Lab Sample ID: 400-136381-28 DU

Matrix: Water
Analysis Batch: 350122

Client Sample ID: AX07973 MW-13S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.070	J	0.0700	J	mg/L		0	4

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-350324/6
Matrix: Water
Analysis Batch: 350324

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			04/18/17 15:04	1

Lab Sample ID: LCS 400-350324/7
Matrix: Water
Analysis Batch: 350324

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	16.1		mg/L		108	90 - 110

Lab Sample ID: MRL 400-350324/3
Matrix: Water
Analysis Batch: 350324

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	6.25		mg/L		125	50 - 150

Lab Sample ID: 400-136381-13 MS
Matrix: Water
Analysis Batch: 350324

Client Sample ID: AX07724 FB-2
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	9.79		mg/L		98	77 - 128

Lab Sample ID: 400-136381-13 MSD
Matrix: Water
Analysis Batch: 350324

Client Sample ID: AX07724 FB-2
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	10.1		mg/L		101	77 - 128	3	5

Lab Sample ID: MB 400-350352/6
Matrix: Water
Analysis Batch: 350352

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			04/19/17 07:51	1

Lab Sample ID: LCS 400-350352/7
Matrix: Water
Analysis Batch: 350352

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	15.5		mg/L		103	90 - 110

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MRL 400-350352/3
Matrix: Water
Analysis Batch: 350352

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	4.95	J	mg/L		99	50 - 150

Lab Sample ID: 400-136381-10 MS
Matrix: Water
Analysis Batch: 350352

Client Sample ID: AX07721 MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1100	F1	400	1070	F1	mg/L		1	77 - 128

Lab Sample ID: 400-136381-10 MSD
Matrix: Water
Analysis Batch: 350352

Client Sample ID: AX07721 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
Sulfate	1100	F1	400	1070	F1	mg/L		2	77 - 128	0	5

Lab Sample ID: MB 400-350401/6
Matrix: Water
Analysis Batch: 350401

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			04/19/17 09:18	1

Lab Sample ID: LCS 400-350401/7
Matrix: Water
Analysis Batch: 350401

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 400-350401/3
Matrix: Water
Analysis Batch: 350401

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	4.90	J	mg/L		98	50 - 150

Lab Sample ID: 400-136381-20 MS
Matrix: Water
Analysis Batch: 350401

Client Sample ID: AX07795 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	71	F1	100	78.3	F1	mg/L		8	77 - 128

Lab Sample ID: 400-136381-20 MSD
Matrix: Water
Analysis Batch: 350401

Client Sample ID: AX07795 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	71	F1	100	76.0	F1	mg/L		5	77 - 128	3	5

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

Lab Sample ID: MB 400-350574/6
Matrix: Water
Analysis Batch: 350574

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			04/20/17 08:20	1

Lab Sample ID: LCS 400-350574/7
Matrix: Water
Analysis Batch: 350574

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	14.1		mg/L		94	90 - 110

Lab Sample ID: MRL 400-350574/3
Matrix: Water
Analysis Batch: 350574

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	4.69	J	mg/L		94	50 - 150

Lab Sample ID: 400-136381-29 MS
Matrix: Water
Analysis Batch: 350574

Client Sample ID: AX07974 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	65	F1	50.0	71.7	F1	mg/L		14	77 - 128

Lab Sample ID: 400-136381-29 MSD
Matrix: Water
Analysis Batch: 350574


Client Sample ID: AX07974 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	65	F1	50.0	71.4	F1	mg/L		14	77 - 128	0	5

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Sampler: A.G./B.R./J.R. Lab Pkt: Whitmire, Cheyenne R. Client Contact: Sarah Copeland E-Mail: cheyenne.whitmire@testamericainc.com Phone:		Carrier Tracking No(s): 400-56525-24537.1 Page: 1 of 3 Job #: 400-136381								
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 #: 40007143 SSON#:		Analysis Requested  400-136381 COC SM 4500 F_C SM 4500 Cl_E SM 4500 SO4_E								
Due Date Requested: TAT Requested (days): Routine PO #: W/O #: Project Name: Sites: Miller Ash Pond (6)		Preservation Codes: M - Hexane N - None O - AshtAO2 P - Na2SO4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify) Other:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=biological, A=air)	Field Filtered Sample (Yes or No)	Formaldehyde (Yes or No)	SM #	SM #	SM #	Special Instructions/Note:
AX07712	4/3/17	1450	G	Water						MW-3D
AX07713	4/3/17	1600	G	Water						MW-3S
AX07714	4/4/17	0800	G	Water						MW-4
AX07715	4/4/17	0800	G	Water						MW-4 Dup (Sample Duplicate)
AX07716	4/4/17	0845	G	Water						FB-1 (Field Blank)
AX07717	4/3/17	1525	G	Water						MW-1
AX07718	4/3/17	1718	G	Water						MW-16
AX07719	4/4/17	0924	G	Water						MW-11
AX07720	4/3/17	1448	G	Water						PZ-5
AX07721	4/3/17	1646	G	Water						MW-5
AX07722	4/3/17	1752	G	Water						MW-5
AX07723	4/4/17	1018	G	Water						MW-8S
AX07724	4/4/17	1045	G	Water						FB-2 (Field Blank)
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:										
Empty Kt Relinquished by: _____ Date: _____ Relinquished by: Sarah Copeland Date/Time: 04/10/2017, 1345 Company: APC Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____										
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: 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: Miller Ash Pond (6)

Sampler: A.G./B.R./J.R.
Lab P/I: Whitmire, Chyenne R
Phone:
E-Mail: chyenne.whitmire@testamericainc.com

Carrier Tracking No(s):
COO No: 400-56525-24537.1
Page: Page 2 of 3
Job #: 400-136381

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastobol, BT=leach, Asst)	Field Filtered Sample (Yes/No)	Perform (MSD) (Yes/No)	Analysis Requested				Special Instructions/Note:
							SM 4500 F _o	SM 4500 Cl _e	SM 4500 SO ₄ _m	Total Number of Containers	
AX07789	4/4/17	1148	G	Water	X	X	X	X			MM-8D
AX07790	4/4/17	1319	G	Water	X	X	X	X			MM-9D
AX07791	4/4/17	1148	G	Water	X	X	X	X			MM-8D Dup (Sample Duplicate)
AX07792	4/4/17	1037	G	Water	X	X	X	X			MM-7S
AX07793	4/4/17	1135	G	Water	X	X	X	X			MM-7D
AX07794	4/4/17	1248	G	Water	X	X	X	X			MM-14
AX07795	4/4/17	1443	G	Water	X	X	X	X			MM-15
AX07796	4/4/17	1240	G	Water	X	X	X	X			MM-12
AX07797	4/4/17	1310	G	Water	X	X	X	X			FB-3 (Field Blank)
AX07798	4/4/17	1443	G	Water	X	X	X	X			MM-13D
AX07799	4/4/17	1443	G	Water	X	X	X	X			MM-13D Dup (Sample Duplicate)
AX07800	4/4/17	1700	G	Water	X	X	X	X			MM-2
AX07801	4/4/17	1750	G	Water	X	X	X	X			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:

Time: _____ **Method of Shipment:** _____

Received by: *SS* **Date/Time:** 4-10-17 0848 **Company:** APC
Received by: _____ **Date/Time:** _____ **Company:** _____
Received by: _____ **Date/Time:** _____ **Company:** _____

Relinquished by: Sarah Copeland **Date/Time:** 04/10/2017, 1345
Relinquished by: _____ **Date/Time:** _____
Relinquished by: _____ **Date/Time:** _____

Custody Seals Intact: Yes No **Custody Seal 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

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTINGS

Client Information
 Client Contact: Ben Rothschild
 Phone: 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: Miller Ash Pond (6)

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

Carrier Tracking No(s):

Analysis Requested:

Due Date Requested:

TAT Requested (days): Routine

PO #:

WO #:

Project #: 40007143

SSON#:

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=wastewater, B=leachate, A=air)	Field/Filtered Sample (Yes or No)	Percol (M/S/D) (Yes or No)	SM 4500 F.C.	SM 4500 Cl.E	SM 4500 SO4.F	Total Number of Containers	Special Instructions/Note:
AX07972	4/6/17	1003	G	Water	X	X	X	X	X	1	MW-10
AX07973	4/6/17	1118	G	Water	X	X	X	X	X	1	MW-13S
AX07974	4/6/17	1246	G	Water	X	X	X	X	X	1	MW-9S

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

Deliverable Requested: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Empty Kit Relinquished by: Sarah Copeland
 Relinquished by: Sarah Copeland
 Relinquished by:
 Relinquished by:

Custody Seals Intact Yes No
 Cooler Temperature(s) °C and Other Remarks:

Received by: [Signature] Date/Time: 4/10/2017, 1345
 Received by: Company: APC
 Received by: Company:
 Received by: Company:

Method of Shipment: Date/Time: 4/10-17 0848
 Company:
 Company:
 Company:



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-136381-1
SDG Number: Miller Ash Pond (6)

Login Number: 136381

List Number: 1

Creator: Siddoway, Benjamin

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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	18.2°C IR-2
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 Miller

TestAmerica Job ID: 400-136381-1
 SDG: Miller Ash Pond (6)

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17



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: 400-136385-1

TestAmerica Sample Delivery Group: Miller Ash Pond (6)

Client Project/Site: CCR Plant Miller

For:

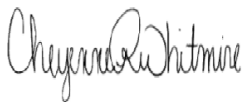
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

5/16/2017 4:50:15 PM

Cheyenne Whitmire, Project Manager II

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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 Miller

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Job ID: 400-136385-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-136385-1

RAD

Method(s) PrecSep_0: Radium 228 Prep Batch 160-304056. The following samples were reduced due to limited volume: AX07725 MW-3D (400-136385-1), AX07726 MW-3S (400-136385-2), AX07727 MW-4 (400-136385-3), AX07728 MW-4 DUP (400-136385-4), AX07729 FB-1 (400-136385-5), AX07730 MW-1 (400-136385-6), AX07731 MW-16 (400-136385-7), AX07732 MW-11 (400-136385-8), AX07733 MW-5 (400-136385-9), AX07734 PZ-5 (400-136385-10), AX07735 MW-6 (400-136385-11), AX07736 MW-8S (400-136385-12), AX07736 MW-8S (400-136385-12[DU]), AX07737 FB-2 (400-136385-13), AX07776 MW-9D (400-136385-14), AX07777 MW-8D (400-136385-15), AX07778 MW-8D DUP (400-136385-16), AX07779 MW-7S (400-136385-17), AX07780 MW-7D (400-136385-18), AX07780 MW-7D (400-136385-18[DU]), AX07781 MW-14 (400-136385-19) and AX07782 MW-15 (400-136385-20).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-304191. The following samples were reduced due to limited volume: AX07783 MW-12 (400-136385-21), AX07784 FB-3 (400-136385-22), AX07785 MW-13D (400-136385-23), AX07786 MW-13D DUP (400-136385-24), AX07787 MW-2 (400-136385-25), AX07788 EB-1 (400-136385-26), AX07975 MW-10 (400-136385-27), AX07976 MW-13S (400-136385-28) and AX07977 MW-9S (400-136385-29).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-304035. The following samples were reduced due to limited volume: AX07725 MW-3D (400-136385-1), AX07726 MW-3S (400-136385-2), AX07727 MW-4 (400-136385-3), AX07728 MW-4 DUP (400-136385-4), AX07729 FB-1 (400-136385-5), AX07730 MW-1 (400-136385-6), AX07731 MW-16 (400-136385-7), AX07732 MW-11 (400-136385-8), AX07733 MW-5 (400-136385-9), AX07734 PZ-5 (400-136385-10), AX07735 MW-6 (400-136385-11), AX07736 MW-8S (400-136385-12), AX07736 MW-8S (400-136385-12[DU]), AX07737 FB-2 (400-136385-13), AX07776 MW-9D (400-136385-14), AX07777 MW-8D (400-136385-15), AX07778 MW-8D DUP (400-136385-16), AX07779 MW-7S (400-136385-17), AX07780 MW-7D (400-136385-18), AX07780 MW-7D (400-136385-18[DU]), AX07781 MW-14 (400-136385-19) and AX07782 MW-15 (400-136385-20).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-304142. The following samples were reduced due to limited volume: AX07783 MW-12 (400-136385-21), AX07784 FB-3 (400-136385-22), AX07785 MW-13D (400-136385-23), AX07786 MW-13D DUP (400-136385-24), AX07787 MW-2 (400-136385-25), AX07788 EB-1 (400-136385-26), AX07975 MW-10 (400-136385-27), AX07976 MW-13S (400-136385-28) and AX07977 MW-9S (400-136385-29).

Method Summary

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

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 Miller

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-136385-1	AX07725 MW-3D	Water	04/03/17 14:50	04/10/17 14:15
400-136385-2	AX07726 MW-3S	Water	04/03/17 16:00	04/10/17 14:15
400-136385-3	AX07727 MW-4	Water	04/04/17 08:00	04/10/17 14:15
400-136385-4	AX07728 MW-4 DUP	Water	04/04/17 08:00	04/10/17 14:15
400-136385-5	AX07729 FB-1	Water	04/04/17 08:45	04/10/17 14:15
400-136385-6	AX07730 MW-1	Water	04/03/17 15:25	04/10/17 14:15
400-136385-7	AX07731 MW-16	Water	04/03/17 17:18	04/10/17 14:15
400-136385-8	AX07732 MW-11	Water	04/04/17 09:24	04/10/17 14:15
400-136385-9	AX07733 MW-5	Water	04/03/17 16:46	04/10/17 14:15
400-136385-10	AX07734 PZ-5	Water	04/03/17 14:48	04/10/17 14:15
400-136385-11	AX07735 MW-6	Water	04/03/17 17:52	04/10/17 14:15
400-136385-12	AX07736 MW-8S	Water	04/04/17 10:18	04/10/17 14:15
400-136385-13	AX07737 FB-2	Water	04/04/17 10:45	04/10/17 14:15
400-136385-14	AX07776 MW-9D	Water	04/04/17 13:19	04/10/17 14:15
400-136385-15	AX07777 MW-8D	Water	04/04/17 11:48	04/10/17 14:15
400-136385-16	AX07778 MW-8D DUP	Water	04/04/17 11:48	04/10/17 14:15
400-136385-17	AX07779 MW-7S	Water	04/04/17 10:37	04/10/17 14:15
400-136385-18	AX07780 MW-7D	Water	04/04/17 11:35	04/10/17 14:15
400-136385-19	AX07781 MW-14	Water	04/04/17 12:48	04/10/17 14:15
400-136385-20	AX07782 MW-15	Water	04/04/17 14:43	04/10/17 14:15
400-136385-21	AX07783 MW-12	Water	04/04/17 12:40	04/10/17 14:15
400-136385-22	AX07784 FB-3	Water	04/04/17 13:10	04/10/17 14:15
400-136385-23	AX07785 MW-13D	Water	04/04/17 14:43	04/10/17 14:15
400-136385-24	AX07786 MW-13D DUP	Water	04/04/17 14:43	04/10/17 14:15
400-136385-25	AX07787 MW-2	Water	04/04/17 17:00	04/10/17 14:15
400-136385-26	AX07788 EB-1	Water	04/04/17 17:50	04/10/17 14:15
400-136385-27	AX07975 MW-10	Water	04/06/17 10:03	04/10/17 14:15
400-136385-28	AX07976 MW-13S	Water	04/06/17 11:18	04/10/17 14:15
400-136385-29	AX07977 MW-9S	Water	04/06/17 12:46	04/10/17 14:15

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07725 MW-3D

Lab Sample ID: 400-136385-1

Date Collected: 04/03/17 14:50

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132		0.0851	0.0859	1.00	0.104	pCi/L	04/18/17 08:14	05/10/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:14	05/10/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0437	U	0.272	0.272	1.00	0.495	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	86.4		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0879	U	0.285	0.285	5.00	0.495	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07726 MW-3S

Lab Sample ID: 400-136385-2

Date Collected: 04/03/17 16:00

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0637	U	0.0781	0.0783	1.00	0.128	pCi/L	04/18/17 08:14	05/10/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/18/17 08:14	05/10/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.218	U	0.299	0.300	1.00	0.565	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	84.5		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.154	U	0.309	0.310	5.00	0.565	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07727 MW-4

Lab Sample ID: 400-136385-3

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.0829	0.0835	1.00	0.112	pCi/L	04/18/17 08:14	05/10/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/18/17 08:14	05/10/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.247	U	0.262	0.263	1.00	0.522	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	78.5		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.136	U	0.275	0.276	5.00	0.522	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07728 MW-4 DUP

Lab Sample ID: 400-136385-4

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.111	0.112	1.00	0.165	pCi/L	04/18/17 08:14	05/10/17 06:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/18/17 08:14	05/10/17 06:34	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		0.303	0.306	1.00	0.465	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	84.5		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.612		0.323	0.326	5.00	0.465	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07729 FB-1

Lab Sample ID: 400-136385-5

Date Collected: 04/04/17 08:45

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.106	0.107	1.00	0.153	pCi/L	04/18/17 08:14	05/10/17 06:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:14	05/10/17 06:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0142	U	0.298	0.298	1.00	0.531	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	81.1		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.152	U	0.317	0.317	5.00	0.531	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07730 MW-1

Lab Sample ID: 400-136385-6

Date Collected: 04/03/17 15:25

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.258		0.136	0.138	1.00	0.171	pCi/L	04/18/17 08:14	05/10/17 06:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 08:14	05/10/17 06:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0771	U	0.298	0.298	1.00	0.522	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	83.0		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.335	U	0.327	0.328	5.00	0.522	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07731 MW-16

Lab Sample ID: 400-136385-7

Date Collected: 04/03/17 17:18

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.0922	0.0926	1.00	0.137	pCi/L	04/18/17 08:14	05/10/17 06:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/18/17 08:14	05/10/17 06:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0982	U	0.232	0.233	1.00	0.443	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	84.5		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00348	U	0.250	0.250	5.00	0.443	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07732 MW-11

Lab Sample ID: 400-136385-8

Date Collected: 04/04/17 09:24

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.291		0.145	0.148	1.00	0.177	pCi/L	04/18/17 08:14	05/10/17 06:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					04/18/17 08:14	05/10/17 06:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00301	U	0.274	0.274	1.00	0.496	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	81.9		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.288	U	0.310	0.311	5.00	0.496	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07733 MW-5

Lab Sample ID: 400-136385-9

Date Collected: 04/03/17 16:46

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.238		0.125	0.126	1.00	0.145	pCi/L	04/18/17 08:14	05/10/17 06:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					04/18/17 08:14	05/10/17 06:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.399	U	0.301	0.303	1.00	0.473	pCi/L	04/18/17 08:41	05/03/17 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					04/18/17 08:41	05/03/17 14:55	1
Y Carrier	87.1		40 - 110					04/18/17 08:41	05/03/17 14:55	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.637		0.326	0.329	5.00	0.473	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07734 PZ-5

Lab Sample ID: 400-136385-10

Date Collected: 04/03/17 14:48

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.103	U	0.0950	0.0955	1.00	0.142	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 08:14	05/10/17 06:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0918	U	0.322	0.322	1.00	0.559	pCi/L	04/18/17 08:41	05/03/17 14:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 08:41	05/03/17 14:57	1
Y Carrier	84.9		40 - 110					04/18/17 08:41	05/03/17 14:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.195	U	0.336	0.336	5.00	0.559	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07735 MW-6

Lab Sample ID: 400-136385-11

Date Collected: 04/03/17 17:52

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.0987	0.0992	1.00	0.145	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:14	05/10/17 06:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.315	U	0.301	0.302	1.00	0.487	pCi/L	04/18/17 08:41	05/03/17 14:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:41	05/03/17 14:57	1
Y Carrier	85.6		40 - 110					04/18/17 08:41	05/03/17 14:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.429	U	0.317	0.318	5.00	0.487	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07736 MW-8S

Lab Sample ID: 400-136385-12

Date Collected: 04/04/17 10:18

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.213		0.119	0.120	1.00	0.145	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:14	05/10/17 06:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0695	U	0.273	0.273	1.00	0.500	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	86.4		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.143	U	0.297	0.298	5.00	0.500	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07737 FB-2

Lab Sample ID: 400-136385-13

Date Collected: 04/04/17 10:45

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0974	U	0.0913	0.0917	1.00	0.138	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/18/17 08:14	05/10/17 06:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00553	U	0.306	0.306	1.00	0.544	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	85.2		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.103	U	0.319	0.319	5.00	0.544	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07776 MW-9D

Lab Sample ID: 400-136385-14

Date Collected: 04/04/17 13:19

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219		0.117	0.119	1.00	0.142	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					04/18/17 08:14	05/10/17 06:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.139	U	0.299	0.299	1.00	0.511	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	87.1		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.358	U	0.321	0.322	5.00	0.511	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07777 MW-8D

Lab Sample ID: 400-136385-15

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0721	U	0.0942	0.0945	1.00	0.157	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/18/17 08:14	05/10/17 06:35	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	0.342	0.342	1.00	0.577	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	78.9		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.278	U	0.355	0.355	5.00	0.577	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07778 MW-8D DUP

Lab Sample ID: 400-136385-16

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0970	U	0.109	0.109	1.00	0.176	pCi/L	04/18/17 08:14	05/10/17 06:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/18/17 08:14	05/10/17 06:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.301	U	0.257	0.258	1.00	0.513	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	85.6		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.204	U	0.279	0.281	5.00	0.513	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07779 MW-7S

Lab Sample ID: 400-136385-17

Date Collected: 04/04/17 10:37

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.111	0.112	1.00	0.167	pCi/L	04/18/17 08:14	05/10/17 09:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/18/17 08:14	05/10/17 09:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.297	0.298	1.00	0.503	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	83.0		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.316	U	0.317	0.318	5.00	0.503	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07780 MW-7D

Lab Sample ID: 400-136385-18

Date Collected: 04/04/17 11:35

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.112	0.114	1.00	0.136	pCi/L	04/18/17 08:14	05/10/17 09:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					04/18/17 08:14	05/10/17 09:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.150	U	0.282	0.282	1.00	0.482	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	92.0		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.343	U	0.303	0.304	5.00	0.482	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07781 MW-14

Lab Sample ID: 400-136385-19

Date Collected: 04/04/17 12:48

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.235		0.105	0.107	1.00	0.0995	pCi/L	04/18/17 08:14	05/10/17 09:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/18/17 08:14	05/10/17 09:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0788	U	0.346	0.346	1.00	0.601	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	85.6		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.314	U	0.362	0.362	5.00	0.601	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07782 MW-15

Lab Sample ID: 400-136385-20

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131		0.0770	0.0779	1.00	0.0787	pCi/L	04/18/17 08:14	05/10/17 09:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					04/18/17 08:14	05/10/17 09:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.196	U	0.286	0.286	1.00	0.479	pCi/L	04/18/17 08:41	05/03/17 14:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					04/18/17 08:41	05/03/17 14:58	1
Y Carrier	81.9		40 - 110					04/18/17 08:41	05/03/17 14:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.327	U	0.296	0.297	5.00	0.479	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07783 MW-12

Lab Sample ID: 400-136385-21

Date Collected: 04/04/17 12:40

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.134	U	0.107	0.107	1.00	0.154	pCi/L	04/18/17 14:35	05/11/17 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					04/18/17 14:35	05/11/17 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	0.124	U	0.286	0.287	1.00	0.493	pCi/L	04/19/17 07:54	05/05/17 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					04/19/17 07:54	05/05/17 09:40	1
Y Carrier	84.1		40 - 110					04/19/17 07:54	05/05/17 09:40	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	0.258	U	0.305	0.306	5.00	0.493	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07784 FB-3

Lab Sample ID: 400-136385-22

Date Collected: 04/04/17 13:10

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00565	U	0.0822	0.0822	1.00	0.172	pCi/L	04/18/17 14:35	05/11/17 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 14:35	05/11/17 10:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.194	U	0.271	0.271	1.00	0.519	pCi/L	04/19/17 07:54	05/05/17 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/19/17 07:54	05/05/17 09:40	1
Y Carrier	82.2		40 - 110					04/19/17 07:54	05/05/17 09:40	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	-0.200	U	0.283	0.284	5.00	0.519	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07785 MW-13D

Lab Sample ID: 400-136385-23

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00109	U	0.0790	0.0790	1.00	0.162	pCi/L	04/18/17 14:35	05/11/17 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					04/18/17 14:35	05/11/17 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	0.262	U	0.293	0.294	1.00	0.481	pCi/L	04/19/17 07:54	05/05/17 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					04/19/17 07:54	05/05/17 09:40	1
Y Carrier	84.9		40 - 110					04/19/17 07:54	05/05/17 09:40	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	0.263	U	0.303	0.304	5.00	0.481	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07786 MW-13D DUP

Lab Sample ID: 400-136385-24

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0722	U	0.0834	0.0836	1.00	0.134	pCi/L	04/18/17 14:35	05/11/17 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					04/18/17 14:35	05/11/17 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	0.100	U	0.260	0.260	1.00	0.453	pCi/L	04/19/17 07:54	05/05/17 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					04/19/17 07:54	05/05/17 09:40	1
Y Carrier	80.0		40 - 110					04/19/17 07:54	05/05/17 09:40	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	0.172	U	0.273	0.274	5.00	0.453	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07787 MW-2
Date Collected: 04/04/17 17:00
Date Received: 04/10/17 14:15

Lab Sample ID: 400-136385-25
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0755	U	0.106	0.106	1.00	0.180	pCi/L	04/18/17 14:35	05/11/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 14:35	05/11/17 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	0.304	U	0.285	0.286	1.00	0.459	pCi/L	04/19/17 07:54	05/05/17 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/19/17 07:54	05/05/17 09:40	1
Y Carrier	82.6		40 - 110					04/19/17 07:54	05/05/17 09:40	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	0.379	U	0.304	0.306	5.00	0.459	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07788 EB-1

Lab Sample ID: 400-136385-26

Date Collected: 04/04/17 17:50

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0221	U	0.0655	0.0656	1.00	0.127	pCi/L	04/18/17 14:35	05/11/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/18/17 14:35	05/11/17 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	0.0498	U	0.243	0.243	1.00	0.430	pCi/L	04/19/17 07:54	05/05/17 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/19/17 07:54	05/05/17 09:43	1
Y Carrier	86.4		40 - 110					04/19/17 07:54	05/05/17 09:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0719	U	0.251	0.251	5.00	0.430	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07975 MW-10

Lab Sample ID: 400-136385-27

Date Collected: 04/06/17 10:03

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.253		0.118	0.120	1.00	0.124	pCi/L	04/18/17 14:35	05/11/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 14:35	05/11/17 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	0.266	U	0.254	0.255	1.00	0.409	pCi/L	04/19/17 07:54	05/05/17 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/19/17 07:54	05/05/17 09:43	1
Y Carrier	82.2		40 - 110					04/19/17 07:54	05/05/17 09:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.519		0.280	0.282	5.00	0.409	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07976 MW-13S

Lab Sample ID: 400-136385-28

Date Collected: 04/06/17 11:18

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0629	U	0.0701	0.0703	1.00	0.109	pCi/L	04/18/17 14:35	05/11/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					04/18/17 14:35	05/11/17 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	-0.206	U	0.307	0.307	1.00	0.581	pCi/L	04/19/17 07:54	05/05/17 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					04/19/17 07:54	05/05/17 09:43	1
Y Carrier	81.1		40 - 110					04/19/17 07:54	05/05/17 09:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.143	U	0.315	0.315	5.00	0.581	pCi/L		05/12/17 14:06	1

Client Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07977 MW-9S

Lab Sample ID: 400-136385-29

Date Collected: 04/06/17 12:46

Matrix: Water

Date Received: 04/10/17 14:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0603	U	0.0732	0.0734	1.00	0.119	pCi/L	04/18/17 14:35	05/11/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/18/17 14:35	05/11/17 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	0.0615	U	0.307	0.307	1.00	0.539	pCi/L	04/19/17 07:54	05/05/17 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/19/17 07:54	05/05/17 09:44	1
Y Carrier	78.5		40 - 110					04/19/17 07:54	05/05/17 09:44	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	0.122	U	0.315	0.315	5.00	0.539	pCi/L		05/12/17 14:06	1

Definitions/Glossary

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

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 Miller

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07725 MW-3D

Lab Sample ID: 400-136385-1

Date Collected: 04/03/17 14:50

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07726 MW-3S

Lab Sample ID: 400-136385-2

Date Collected: 04/03/17 16:00

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07727 MW-4

Lab Sample ID: 400-136385-3

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07728 MW-4 DUP

Lab Sample ID: 400-136385-4

Date Collected: 04/04/17 08:00

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:34	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07729 FB-1

Lab Sample ID: 400-136385-5

Date Collected: 04/04/17 08:45

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:34	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07730 MW-1

Lab Sample ID: 400-136385-6

Date Collected: 04/03/17 15:25

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:34	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07731 MW-16

Lab Sample ID: 400-136385-7

Date Collected: 04/03/17 17:18

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:34	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07732 MW-11

Lab Sample ID: 400-136385-8

Date Collected: 04/04/17 09:24

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:34	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07733 MW-5

Lab Sample ID: 400-136385-9

Date Collected: 04/03/17 16:46

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:34	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306906	05/03/17 14:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07734 PZ-5

Lab Sample ID: 400-136385-10

Date Collected: 04/03/17 14:48

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:57	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07735 MW-6

Lab Sample ID: 400-136385-11

Date Collected: 04/03/17 17:52

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:57	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07736 MW-8S

Lab Sample ID: 400-136385-12

Date Collected: 04/04/17 10:18

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07737 FB-2

Lab Sample ID: 400-136385-13

Date Collected: 04/04/17 10:45

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07776 MW-9D

Lab Sample ID: 400-136385-14

Date Collected: 04/04/17 13:19

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07777 MW-8D

Lab Sample ID: 400-136385-15

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07778 MW-8D DUP

Lab Sample ID: 400-136385-16

Date Collected: 04/04/17 11:48

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	308129	05/10/17 06:35	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07779 MW-7S

Lab Sample ID: 400-136385-17

Date Collected: 04/04/17 10:37

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 09:03	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07780 MW-7D

Lab Sample ID: 400-136385-18

Date Collected: 04/04/17 11:35

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 09:03	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07781 MW-14

Lab Sample ID: 400-136385-19

Date Collected: 04/04/17 12:48

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 09:04	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07782 MW-15

Lab Sample ID: 400-136385-20

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304035	04/18/17 08:14	LDE	TAL SL
Total/NA	Analysis	9315		1	307912	05/10/17 09:04	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304056	04/18/17 08:41	LDE	TAL SL
Total/NA	Analysis	9320		1	306905	05/03/17 14:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07783 MW-12

Lab Sample ID: 400-136385-21

Date Collected: 04/04/17 12:40

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308225	05/11/17 08:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307423	05/05/17 09:40	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07784 FB-3

Lab Sample ID: 400-136385-22

Date Collected: 04/04/17 13:10

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308225	05/11/17 10:57	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307423	05/05/17 09:40	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07785 MW-13D

Lab Sample ID: 400-136385-23

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308225	05/11/17 08:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307423	05/05/17 09:40	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07786 MW-13D DUP

Lab Sample ID: 400-136385-24

Date Collected: 04/04/17 14:43

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308225	05/11/17 08:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307423	05/05/17 09:40	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Client Sample ID: AX07787 MW-2

Lab Sample ID: 400-136385-25

Date Collected: 04/04/17 17:00

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308227	05/11/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307423	05/05/17 09:40	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07788 EB-1

Lab Sample ID: 400-136385-26

Date Collected: 04/04/17 17:50

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308227	05/11/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307325	05/05/17 09:43	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07975 MW-10

Lab Sample ID: 400-136385-27

Date Collected: 04/06/17 10:03

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308227	05/11/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307325	05/05/17 09:43	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Client Sample ID: AX07976 MW-13S

Lab Sample ID: 400-136385-28

Date Collected: 04/06/17 11:18

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308227	05/11/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307325	05/05/17 09:43	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

Client Sample ID: AX07977 MW-9S

Lab Sample ID: 400-136385-29

Date Collected: 04/06/17 12:46

Matrix: Water

Date Received: 04/10/17 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304142	04/18/17 14:35	LDE	TAL SL
Total/NA	Analysis	9315		1	308227	05/11/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304191	04/19/17 07:54	LDE	TAL SL
Total/NA	Analysis	9320		1	307325	05/05/17 09:44	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308443	05/12/17 14:06	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 Miller

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Rad

Prep Batch: 304035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136385-1	AX07725 MW-3D	Total/NA	Water	PrecSep-21	
400-136385-2	AX07726 MW-3S	Total/NA	Water	PrecSep-21	
400-136385-3	AX07727 MW-4	Total/NA	Water	PrecSep-21	
400-136385-4	AX07728 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-136385-5	AX07729 FB-1	Total/NA	Water	PrecSep-21	
400-136385-6	AX07730 MW-1	Total/NA	Water	PrecSep-21	
400-136385-7	AX07731 MW-16	Total/NA	Water	PrecSep-21	
400-136385-8	AX07732 MW-11	Total/NA	Water	PrecSep-21	
400-136385-9	AX07733 MW-5	Total/NA	Water	PrecSep-21	
400-136385-10	AX07734 PZ-5	Total/NA	Water	PrecSep-21	
400-136385-11	AX07735 MW-6	Total/NA	Water	PrecSep-21	
400-136385-12	AX07736 MW-8S	Total/NA	Water	PrecSep-21	
400-136385-13	AX07737 FB-2	Total/NA	Water	PrecSep-21	
400-136385-14	AX07776 MW-9D	Total/NA	Water	PrecSep-21	
400-136385-15	AX07777 MW-8D	Total/NA	Water	PrecSep-21	
400-136385-16	AX07778 MW-8D DUP	Total/NA	Water	PrecSep-21	
400-136385-17	AX07779 MW-7S	Total/NA	Water	PrecSep-21	
400-136385-18	AX07780 MW-7D	Total/NA	Water	PrecSep-21	
400-136385-19	AX07781 MW-14	Total/NA	Water	PrecSep-21	
400-136385-20	AX07782 MW-15	Total/NA	Water	PrecSep-21	
MB 160-304035/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-304035/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-136385-12 DU	AX07736 MW-8S	Total/NA	Water	PrecSep-21	
400-136385-18 DU	AX07780 MW-7D	Total/NA	Water	PrecSep-21	

Prep Batch: 304056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136385-1	AX07725 MW-3D	Total/NA	Water	PrecSep_0	
400-136385-2	AX07726 MW-3S	Total/NA	Water	PrecSep_0	
400-136385-3	AX07727 MW-4	Total/NA	Water	PrecSep_0	
400-136385-4	AX07728 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-136385-5	AX07729 FB-1	Total/NA	Water	PrecSep_0	
400-136385-6	AX07730 MW-1	Total/NA	Water	PrecSep_0	
400-136385-7	AX07731 MW-16	Total/NA	Water	PrecSep_0	
400-136385-8	AX07732 MW-11	Total/NA	Water	PrecSep_0	
400-136385-9	AX07733 MW-5	Total/NA	Water	PrecSep_0	
400-136385-10	AX07734 PZ-5	Total/NA	Water	PrecSep_0	
400-136385-11	AX07735 MW-6	Total/NA	Water	PrecSep_0	
400-136385-12	AX07736 MW-8S	Total/NA	Water	PrecSep_0	
400-136385-13	AX07737 FB-2	Total/NA	Water	PrecSep_0	
400-136385-14	AX07776 MW-9D	Total/NA	Water	PrecSep_0	
400-136385-15	AX07777 MW-8D	Total/NA	Water	PrecSep_0	
400-136385-16	AX07778 MW-8D DUP	Total/NA	Water	PrecSep_0	
400-136385-17	AX07779 MW-7S	Total/NA	Water	PrecSep_0	
400-136385-18	AX07780 MW-7D	Total/NA	Water	PrecSep_0	
400-136385-19	AX07781 MW-14	Total/NA	Water	PrecSep_0	
400-136385-20	AX07782 MW-15	Total/NA	Water	PrecSep_0	
MB 160-304056/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-304056/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-136385-12 DU	AX07736 MW-8S	Total/NA	Water	PrecSep_0	
400-136385-18 DU	AX07780 MW-7D	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Prep Batch: 304142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136385-21	AX07783 MW-12	Total/NA	Water	PrecSep-21	
400-136385-22	AX07784 FB-3	Total/NA	Water	PrecSep-21	
400-136385-23	AX07785 MW-13D	Total/NA	Water	PrecSep-21	
400-136385-24	AX07786 MW-13D DUP	Total/NA	Water	PrecSep-21	
400-136385-25	AX07787 MW-2	Total/NA	Water	PrecSep-21	
400-136385-26	AX07788 EB-1	Total/NA	Water	PrecSep-21	
400-136385-27	AX07975 MW-10	Total/NA	Water	PrecSep-21	
400-136385-28	AX07976 MW-13S	Total/NA	Water	PrecSep-21	
400-136385-29	AX07977 MW-9S	Total/NA	Water	PrecSep-21	
MB 160-304142/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-304142/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-78063-B-8-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
240-78063-B-8-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 304191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136385-21	AX07783 MW-12	Total/NA	Water	PrecSep_0	
400-136385-22	AX07784 FB-3	Total/NA	Water	PrecSep_0	
400-136385-23	AX07785 MW-13D	Total/NA	Water	PrecSep_0	
400-136385-24	AX07786 MW-13D DUP	Total/NA	Water	PrecSep_0	
400-136385-25	AX07787 MW-2	Total/NA	Water	PrecSep_0	
400-136385-26	AX07788 EB-1	Total/NA	Water	PrecSep_0	
400-136385-27	AX07975 MW-10	Total/NA	Water	PrecSep_0	
400-136385-28	AX07976 MW-13S	Total/NA	Water	PrecSep_0	
400-136385-29	AX07977 MW-9S	Total/NA	Water	PrecSep_0	
MB 160-304191/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-304191/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-78063-B-8-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	
240-78063-B-8-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-304035/1-A
Matrix: Water
Analysis Batch: 307912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304035

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03494	U	0.0514	0.0515	1.00	0.0880	pCi/L	04/18/17 08:14	05/10/17 06:30	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	96.8				04/18/17 08:14	05/10/17 06:30	1			

Lab Sample ID: LCS 160-304035/2-A
Matrix: Water
Analysis Batch: 307912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304035

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	11.97		1.27	1.00	0.100	pCi/L	79	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	105				04/18/17 08:14	05/10/17 06:30	1		

Lab Sample ID: 400-136385-12 DU
Matrix: Water
Analysis Batch: 308129

Client Sample ID: AX07736 MW-8S
Prep Type: Total/NA
Prep Batch: 304035

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.213		0.06806	U	0.0975	1.00	0.165	pCi/L	0.67	1
Carrier	DU DU		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	98.5				04/18/17 08:14	05/10/17 06:30	1			

Lab Sample ID: 400-136385-18 DU
Matrix: Water
Analysis Batch: 307912

Client Sample ID: AX07780 MW-7D
Prep Type: Total/NA
Prep Batch: 304035

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.193		0.08798	U	0.0804	1.00	0.118	pCi/L	0.54	1
Carrier	DU DU		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	96.8				04/18/17 08:14	05/10/17 06:30	1			

Lab Sample ID: MB 160-304142/1-A
Matrix: Water
Analysis Batch: 308225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304142

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01637	U	0.0647	0.0647	1.00	0.125	pCi/L	04/18/17 14:35	05/11/17 08:27	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-304142/1-A
Matrix: Water
Analysis Batch: 308225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304142

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	90.9		40 - 110

Prepared	Analyzed	Dil Fac
04/18/17 14:35	05/11/17 08:27	1

Lab Sample ID: LCS 160-304142/2-A
Matrix: Water
Analysis Batch: 308225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304142

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	10.79		1.15	1.00	0.108	pCi/L	95	68 - 137

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.1		40 - 110

Lab Sample ID: 240-78063-B-8-A MS
Matrix: Water
Analysis Batch: 308225

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 304142

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.140		11.4	10.83		1.15	1.00	0.114	pCi/L	94	75 - 138

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	88.8		40 - 110

Lab Sample ID: 240-78063-B-8-B MSD
Matrix: Water
Analysis Batch: 308225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 304142

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.140		11.4	10.21		1.09	1.00	0.116	pCi/L	89	75 - 138	0.28	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	94.4		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-304056/1-A
Matrix: Water
Analysis Batch: 306906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304056

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.07066	U	0.273	0.273	1.00	0.500	pCi/L	04/18/17 08:41	05/03/17 14:55	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-304056/1-A
Matrix: Water
Analysis Batch: 306906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304056

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	96.8		40 - 110
Y Carrier	92.3		40 - 110

Prepared	Analyzed	Dil Fac
04/18/17 08:41	05/03/17 14:55	1
04/18/17 08:41	05/03/17 14:55	1

Lab Sample ID: LCS 160-304056/2-A
Matrix: Water
Analysis Batch: 306906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304056

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	18.0	16.73		1.82	1.00	0.465	pCi/L	93	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	105		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: 400-136385-12 DU
Matrix: Water
Analysis Batch: 306905

Client Sample ID: AX07736 MW-8S
Prep Type: Total/NA
Prep Batch: 304056

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.0695	U	0.2185	U	0.343	1.00	0.576	pCi/L	0.47	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: 400-136385-18 DU
Matrix: Water
Analysis Batch: 306905

Client Sample ID: AX07780 MW-7D
Prep Type: Total/NA
Prep Batch: 304056

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.150	U	0.06314	U	0.269	1.00	0.474	pCi/L	0.16	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	96.8		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: MB 160-304191/1-A
Matrix: Water
Analysis Batch: 307423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304191

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.06495	U	0.221	0.221	1.00	0.386	pCi/L	04/19/17 07:54	05/05/17 09:39	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-304191/1-A
Matrix: Water
Analysis Batch: 307423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304191

	<i>MB</i>	<i>MB</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	90.9		40 - 110
Y Carrier	82.6		40 - 110

<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
04/19/17 07:54	05/05/17 09:39	1
04/19/17 07:54	05/05/17 09:39	1

Lab Sample ID: LCS 160-304191/2-A
Matrix: Water
Analysis Batch: 307423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304191

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qual</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Radium-228	13.5	14.35		1.55	1.00	0.387	pCi/L	106	56 - 140

	<i>LCS</i>	<i>LCS</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	94.1		40 - 110
Y Carrier	81.5		40 - 110

Lab Sample ID: 240-78063-B-8-C MS
Matrix: Water
Analysis Batch: 307423

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 304191

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qual</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qual</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Radium-228	0.0832	U	13.5	14.71		1.59	1.00	0.418	pCi/L	108	45 - 150

	<i>MS</i>	<i>MS</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	88.8		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: 240-78063-B-8-D MSD
Matrix: Water
Analysis Batch: 307423

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 304191

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qual</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qual</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RER</i>	<i>RER Limit</i>
Radium-228	0.0832	U	13.5	13.66		1.48	1.00	0.363	pCi/L	101	45 - 150	0.34	1

	<i>MSD</i>	<i>MSD</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	94.4		40 - 110
Y Carrier	86.4		40 - 110

QC Sample Results

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

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-136385-12 DU
Matrix: Water
Analysis Batch: 308443

Client Sample ID: AX07736 MW-8S
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	0.143	U	0.2865	U	0.357	5.00	0.576	pCi/L	0.22	

Lab Sample ID: 400-136385-18 DU
Matrix: Water
Analysis Batch: 308443

Client Sample ID: AX07780 MW-7D
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	0.343	U	0.1511	U	0.281	5.00	0.474	pCi/L	0.33	

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- 11
- 12
- 13

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab P/N: Whitnire, Cheyenne R		Carrier Tracking No(s):	
Sampler: Ben Rothschild/ Jason Rouss/ Anthony G.		E-Mail: cheyenne.whitnire@testamericainc.com		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		Phone: 400-136385		Page: Page 1 of 3	
Company: Alabama Power General Test Laboratory		Address: 744 County Rd 87 GSC #8		Job #: 400-136385	
City: Calera		State/Zip: AL, 35040		Preservation Codes:	
Phone: 205-664-6121 (Tel)		PO #: 400-136385 COC		M - Hexane N - None O - As/NaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
E-mail: sgcopela@southemco.com		WO #: 9315_Ra226, 9320_Ra228, Ra226Ra228_GFP		Other:	
Project Name: CCR		Project #: 40007143		Special Instructions/Note:	
Site: Miller Ash Pond (6)		SSOW#: 400-136385 COC		Total Number of Containers:	
Sample Identification		Sample Date		Sample Time	
Sample ID		Date		Time	
AX07725		4/3/17		1450	
AX07726		4/3/17		1600	
AX07727		4/4/17		0800	
AX07728		4/4/17		0800	
AX07729		4/4/17		0845	
AX07730		4/3/17		1525	
AX07731		4/3/17		1718	
AX07732		4/4/17		0924	
AX07733		4/3/17		1646	
AX07734		4/3/17		1448	
AX07735		4/3/17		1752	
Possible Hazard Identification		Sample Type		Matrix	
<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		C=Comp, G=grab		W=water, S=solid, O=oil, A=air	
Deliverable Requested: I, II, III, IV, Other (specify)		G		Water	
Empty Kit Relinquished by:		G		Water	
Relinquished by: Sarah Copeland		G		Water	
Relinquished by:		G		Water	
Relinquished by:		G		Water	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		G		Water	
Custody Seal No.:		G		Water	

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: Ben Rothschild/Anthony Goggins Phone: _____ Lab Pk: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		COC No: 400-56525-24537.1 Page: Page 2 of 3 Job #: 400-136385					
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 SOW#: Miller Ash Pond (S)		Analysis Requested Due Date Requested: _____ TAT Requested (days): Routine PO #: _____ WO #: _____ Project #: 40007143 SOW#: _____							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, AS=sp)	Preservation Code	Field Filtered Sample (Yes/No)	Performance (Yes/No)	Carrier Tracking No(s)	
AX07736	4/4/17	1018	G	Water		X	Y	9315_Ra226_9320_Ra228_Ra228_GFP	
AX07737	4/4/17	1045	G	Water		X			
AX07776	4/4/17	1319	G	Water		X			
AX07777	4/4/17	1148	G	Water		X			
AX07778	4/4/17	1148	G	Water		X			
AX07779	4/4/17	1037	G	Water		X			
AX07780	4/4/17	1135	G	Water		X			
AX07781	4/4/17	1248	G	Water		X			
AX07782	4/4/17	1443	G	Water		X			
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, III, IV, Other (specify) _____					Special Instructions/Note: MW-8S FB-2 (Field Blank) MW-9D MW-8D MW-8D Dup (Sample Duplicate) MW-7S MW-7D MW-14 MW-15				
Empty Kit Relinquished by: Sarah Copeland Relinquished by: Sarah Copeland Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Special Instructions/QC Requirements: 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 Method of Shipment: _____ Date: 04/10/2017, 1330 Date/Time: 04/10/2017, 1330 Date/Time: _____ Date/Time: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: _____				



Chain of Custody Record

Client Information		Lab P.M.: Whitmire, Cheyenne R		Carrier Tracking No(s):		
Company: Alabama Power General Test Laboratory		Sampler: Jason Rouss/ Ben Rothschild		COC No: 400-56525-24537.1		
Address: 744 County Rd 87 GSC #8		Phone: Sarah Copeland		Pages: Page 3 of 3		
City: Calera		E-Mail: cheyenne.whitmire@testamericainc.com		Job #: 400-136385		
State, Zip: AL, 35040		Due Date Requested:		Analysis Requested:		
Phone: 205-664-6121 (Tel)		TAT Requested (days): Routine		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify) Other:		
Email: sgcopela@southernco.com		Project #: 40007143		Total Number of Containers:		
Project Name: CCR		SSOW#: Miller Ash Pond (6)		Special Instructions/Note:		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, ST=Sludge, A=air)	Preservation Code
AX07783	4/4/17	1240	G	Water		MW-12
AX07784	4/4/17	1310	G	Water		FB-3 (Field Blank)
AX07785	4/4/17	1443	G	Water		MW-13D
AX07786	4/4/17	1443	G	Water		MW-13D Dup (Sample Duplicate)
AX07787	4/4/17	1700	G	Water		MW-2
AX07788	4/4/17	1750	G	Water		EB-1 (Equipment Blank)
AX07975	4/6/17	1003	G	Water		MW-10
AX07976	4/6/17	1118	G	Water		MW-13S
AX07977	4/6/17	1246	G	Water		MW-9S
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, 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: _____ Date: _____ Time: _____ Method of Shipment: _____						
Relinquished by: Sarah Copeland Date/Time: 04/10/2017: 1330 Company: APC						
Relinquished by: _____ Date/Time: _____ Company: _____						
Relinquished by: _____ Date/Time: _____ Company: _____						
Custody Seals Intact: Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____ Δ Yes Δ No						



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-136385-1
SDG Number: Miller Ash Pond (6)

Login Number: 136385

List Number: 1

Creator: Siddoway, Benjamin

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	Thermal preservation not required.
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 Miller

TestAmerica Job ID: 400-136385-1
 SDG: Miller Ash Pond (6)

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17 *
West Virginia DEP	State Program	3	136	06-30-17

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	06-30-17 *
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-17 *
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17 *
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

TestAmerica Job ID: 400-136385-1
SDG: Miller Ash Pond (6)

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
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17 *
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola



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

- Field Complete
- Lab Complete

Lab ETA 04/04/2017 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	No temperature preservation required for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	04/03/2017	14:50	1	Groundwater		AX07725
MW-3S	04/03/2017	16:00	1	Groundwater		AX07726
MW-4	04/04/2017	08:00	1	Groundwater		AX07727
MW-4 DUP	04/04/2017	08:00	1	Sample Duplicate		AX07728
FB-1	04/04/2017	08:45	1	Field Blank		AX07729

Relinquished By	Received By	Date/Time
		04/04/2017 09:59
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southemco.com, c=US Date: 2017.04.04 12:51:26 -0500</small>	04/04/2017 12:51

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp	NA
		Thermometer ID	NA
		pH Strip ID	5521-28268-20-12



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

 Field Complete

 Lab Complete

 Lab ETA

 Requested Complete Date
 Site Representative
 Collector

 Results To
 Requested By
 Location

 Analysis Requested
 Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1R	04/03/2017	15:25	1	Groundwater		AX07730
MW-16R	04/03/2017	17:18	1	Groundwater		AX07731
MW-11R	04/04/2017	09:24	1	Groundwater		AX07732

Relinquished By	Received By	Date/Time
		04/04/2017 10:28
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southemco.com, c=US Date: 2017.04.04 12:58:47 -0500</small>	04/04/2017 12:58

 SmarTroll ID
 Turbidity ID

 All metals and radiological bottles have pH < 2
 Cooler Temp
 Thermometer ID
 pH Strip ID



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 04/04/2017 12:00

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Anthony Goggins"/>	Location	<input type="text" value="Miller Ash Pond"/>

Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological"/>
Comments	<input type="text" value="Radium Duplicate 2 MW8S
There is no temperature preservation requirement for Radium."/>

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	04/03/2017	16:46	1	Groundwater		AX07733
PZ-5	04/03/2017	14:48	1	Groundwater		AX07734
MW-6	04/03/2017	17:52	1	Groundwater		AX07735
MW-8s	04/04/2017	10:18	3	Groundwater		AX07736
FB-2	04/04/2017	10:45	1	Field Blank		AX07737

Relinquished By	Received By	Date/Time
		<input type="text" value="04/04/2017 10:49"/>
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.04.04 13:00:51 -0500'</small>	<input type="text" value="04/04/2017 13:00"/>

SmarTroll ID	<input type="text" value="5141-26150-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20009-2-1"/>	Cooler Temp
		<input type="text" value="NA"/>
		Thermometer ID
		<input type="text" value="NA"/>
		pH Strip ID
		<input type="text" value="5521-28268-20-12"/>



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Anthony Goggins"/>	Location	<input type="text" value="Miller Ash Pond"/>

Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological"/>
Comments	<input type="text" value="Relinquished to shipping lab in secure locked room. 040417 1643
Received from shipping lab. There is no temperature preservation requirement for Radium."/>

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9D	04/04/2017	13:19	1	Groundwater		AX07776
MW-8D	04/04/2017	11:48	1	Groundwater		AX07777
MW-8DDUP	04/04/2017	11:48	1	Sample Duplicate		AX07778

Relinquished By	Received By	Date/Time
<input type="text" value="Anthony Goggins"/>	<input type="text" value="Shipped LAB"/>	<input type="text" value="04/04/2017 16:49"/>
<input type="text" value="Shipping Lab"/>	<input type="text" value="Sarah Copeland"/> <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southemco.com, c=US Date: 2017.04.05 07:58:47 -0500'</small>	<input type="text" value="04/05/2017 07:59"/>

SmarTroll ID	<input type="text" value="5141-26150-1-1"/>	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20009-2-1"/>	Cooler Temp	<input type="text" value="NA"/>
		Thermometer ID	<input type="text" value="NA"/>
		pH Strip ID	<input type="text" value="5521-28268-20-12"/>



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Field Complete
 Lab Complete

Lab ETA 04/05/2017 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond

Analysis Requested	Bottle 1 (1L): Radiological
Comments	Radium Duplicate collected at MW-7D There is no temperature preservation requirement for Radium.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-7S	04/04/2017	10:37	1	Groundwater		AX07779
MW-7D	04/04/2017	11:35	3	Groundwater		AX07780
MW-14	04/04/2017	12:48	1	Groundwater		AX07781
MW-15	04/04/2017	14:43	1	Groundwater		AX07782

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.04.05 08:02:59 -05'00'</small>	04/05/2017 08:03

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Cooler Temp	NA	
Thermometer ID	NA	
pH Strip ID	552128268-20-12	



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>		
	Site Representative		<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
	Collector		<input type="text" value="Jason Rouss"/>		Location
Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological"/>				
Comments	<input type="text" value="There is no temperature preservation requirement for Radium."/>				

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12R	04/04/2017	12:40	1	Groundwater		AX07783
FB-3R	04/04/2017	13:10	1	Field Blank		AX07784
MW-13DR	04/04/2017	14:43	1	Groundwater		AX07785
MW-13DR Dup	04/04/2017	14:43	1	Sample Duplicate		AX07786
MW-2R	04/04/2017	17:00	1	Groundwater		AX07787
EB-1R	04/04/2017	17:50	1	Equipment Blank		AX07788

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: 2017.04.05 08:07:06 -05'00'</small>	04/05/2017 08:07

SmarTroll ID <input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID <input type="text" value="4677-23342-4-1"/>		
Cooler Temp		<input type="text" value="NA"/>
Thermometer ID		<input type="text" value="NA"/>
pH Strip ID	<input type="text" value="5521-28268-20-12"/>	



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

- Field Complete
- Lab Complete

Lab ETA 04/06/2017 15:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller 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-10	04/06/2017	10:03	1	Groundwater		AX07975
MW-13S	04/06/2017	11:18	1	Groundwater		AX07976
MW-9S	04/06/2017	12:46	1	Groundwater		AX07977

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcoppela@southernco.com, c=US Date: 2017.04.06 15:14:53 -05'00'</small>	04/06/2017 15:15

SmarTroll ID	4696-23441-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp
		NA
		Thermometer ID
		NA
		pH Strip ID
		5521-28268-20-12

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

 Alabama Power



Sample Group : WMWMILAP_1095

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1095

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

Job Narrative
400-138231-1
General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX11366 MW-3D (400-138231-2) and AX11491 MW-5 (400-138231-23). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX11365 MW-12 (400-138231-1), AX11366 MW-3D (400-138231-2), AX11367 MW-3S (400-138231-3), AX11368 MW-4 (400-138231-4), AX11369 MW-4 DUP (400-138231-5), AX11370 MW-6 (400-138231-6), AX11371 MW-6 DUP (400-138231-7), AX11372 MW-7S (400-138231-8), AX11373 MW-7D (400-138231-9), AX11374 MW-8S (400-138231-10), AX11376 MW-1 (400-138231-12), AX11377 MW-11 (400-138231-13), AX11378 MW-2 (400-138231-14), AX11379 MW-15 (400-138231-15), AX11380 MW-16 (400-138231-16), AX11381 MW-16 DUP (400-138231-17), AX11486 MW-10 (400-138231-18), AX11487 MW-14 (400-138231-19), AX11489 PZ-5 (400-138231-21), AX11491 MW-5 (400-138231-23), AX11492 MW-8D (400-138231-24), AX11493 MW-9D (400-138231-25), AX11494 MW-9S (400-138231-26), AX11495 MW-13S (400-138231-27) and AX11496 MW-13D (400-138231-28). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 354838 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 354917 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.



Metals ICP

Miller Ash Pond

WMWMILAP_1095

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>
AX11365	20170613_20170520B	WMWMILAP_1095
AX11366	20170613_20170520B	WMWMILAP_1095
AX11367	20170613	WMWMILAP_1095
AX11368	20170613_20170520B	WMWMILAP_1095
AX11369	20170613_20170520B	WMWMILAP_1095
AX11370	20170613_20170520B	WMWMILAP_1095
AX11371	20170613_20170520B	WMWMILAP_1095
AX11372	20170613_20170520B	WMWMILAP_1095
AX11373	20170613_20170520B	WMWMILAP_1095
AX11374	20170613	WMWMILAP_1095
AX11375	20170519CK	WMWMILAP_1095
AX11376	20170519CK_20170520C	WMWMILAP_1095
AX11377	20170519CK_20170520C	WMWMILAP_1095
AX11378	20170519CK_20170520C	WMWMILAP_1095
AX11379	20170519CK	WMWMILAP_1095
AX11380	20170519CK_20170520C	WMWMILAP_1095
AX11381	20170519CK_20170520C	WMWMILAP_1095
AX11486	20170519CK_20170520C	WMWMILAP_1095
AX11487	20170519CK	WMWMILAP_1095
AX11488	20170519CK	WMWMILAP_1095
AX11489	20170519DK	WMWMILAP_1095
AX11490	20170519DK	WMWMILAP_1095
AX11491	20170519DK_20170520D	WMWMILAP_1095
AX11492	20170519DK	WMWMILAP_1095
AX11493	20170519DK	WMWMILAP_1095
AX11494	20170519DK	WMWMILAP_1095
AX11495	20170519DK	WMWMILAP_1095
AX11496	20170519DK	WMWMILAP_1095
AX11497	20170519DK	WMWMILAP_1095



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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met, with the exception of 20170519BK (samples AX11365-74). All three elements failed LCS and no data was reported. The data set was re-prepared, re-analyzed and reported in 20170613 with passing criteria. The calcium dilutions in 20170520B were not affected.
- 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 dilution to compensate for any matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve.

Case Narrative



<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AX11365	Calcium	x10
AX11366	Calcium	x10
AX11368	Calcium	x10
AX11369	Calcium	x10
AX11370	Calcium	x10
AX11371	Calcium	x10
AX11372	Calcium	x10
AX11373	Calcium	x10
AX11376	Calcium	x10
AX11377	Calcium	x10
AX11378	Calcium	x10
AX11380	Calcium	x10
AX11381	Calcium	x10
AX11486	Calcium	x10
AX11491	Calcium	x10

8. The raw data results include results corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1095

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>
AX11365	594573	WMWMILAP_1095
AX11366	594573	WMWMILAP_1095
AX11367	594573	WMWMILAP_1095
AX11368	594573	WMWMILAP_1095
AX11369	594573	WMWMILAP_1095
AX11370	594573	WMWMILAP_1095
AX11371	594573	WMWMILAP_1095
AX11372	594573	WMWMILAP_1095
AX11373	594573	WMWMILAP_1095
AX11374	594573	WMWMILAP_1095
AX11375	594574	WMWMILAP_1095
AX11376	594574	WMWMILAP_1095
AX11377	594574	WMWMILAP_1095
AX11378	594574	WMWMILAP_1095
AX11379	594574	WMWMILAP_1095
AX11380	594574	WMWMILAP_1095
AX11381	594574	WMWMILAP_1095
AX11486	594574	WMWMILAP_1095
AX11487	594574	WMWMILAP_1095
AX11488	594574	WMWMILAP_1095
AX11489	594575	WMWMILAP_1095
AX11490	594575	WMWMILAP_1095
AX11491	594575	WMWMILAP_1095
AX11492	594575	WMWMILAP_1095
AX11493	594575	WMWMILAP_1095
AX11494	594575	WMWMILAP_1095
AX11495	594575	WMWMILAP_1095
AX11496	594575	WMWMILAP_1095
AX11497	594575	WMWMILAP_1095



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

Miller Ash Pond

WMWMILAP_1095

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>
AX11365	594577	WMWMILAP_1095
AX11366	594577	WMWMILAP_1095
AX11367	594577	WMWMILAP_1095
AX11368	594577	WMWMILAP_1095
AX11369	594577	WMWMILAP_1095
AX11370	594577	WMWMILAP_1095
AX11371	594577	WMWMILAP_1095
AX11372	594577	WMWMILAP_1095
AX11373	594577	WMWMILAP_1095
AX11374	594577	WMWMILAP_1095
AX11375	594578	WMWMILAP_1095
AX11376	594578	WMWMILAP_1095
AX11377	594578	WMWMILAP_1095
AX11378	594578	WMWMILAP_1095
AX11379	594578	WMWMILAP_1095
AX11380	594578	WMWMILAP_1095
AX11381	594578	WMWMILAP_1095
AX11486	594578	WMWMILAP_1095
AX11487	594578	WMWMILAP_1095
AX11488	594578	WMWMILAP_1095
AX11489	594579	WMWMILAP_1095
AX11490	594579	WMWMILAP_1095
AX11491	594579	WMWMILAP_1095
AX11492	594579	WMWMILAP_1095
AX11493	594579	WMWMILAP_1095
AX11494	594579	WMWMILAP_1095
AX11495	594579	WMWMILAP_1095
AX11496	594579	WMWMILAP_1095
AX11497	594579	WMWMILAP_1095

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

Miller Ash Pond

WMWMILAP_1095

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>
AX11365	594512	WMWMILAP_1095
AX11366	594512	WMWMILAP_1095
AX11367	594512	WMWMILAP_1095
AX11368	594512	WMWMILAP_1095
AX11369	594512	WMWMILAP_1095
AX11370	594512	WMWMILAP_1095
AX11371	594512	WMWMILAP_1095
AX11372	594416	WMWMILAP_1095
AX11373	594538	WMWMILAP_1095
AX11374	594538	WMWMILAP_1095
AX11375	594538	WMWMILAP_1095
AX11376	594416	WMWMILAP_1095
AX11377	594538	WMWMILAP_1095
AX11378	594538	WMWMILAP_1095
AX11379	594538	WMWMILAP_1095
AX11380	594538	WMWMILAP_1095
AX11381	594538	WMWMILAP_1095
AX11486	594538	WMWMILAP_1095
AX11487	594538	WMWMILAP_1095
AX11488	594539	WMWMILAP_1095
AX11489	594539	WMWMILAP_1095
AX11490	594539	WMWMILAP_1095
AX11491	594539	WMWMILAP_1095
AX11492	594539	WMWMILAP_1095
AX11493	594539	WMWMILAP_1095
AX11494	594539	WMWMILAP_1095
AX11495	594539	WMWMILAP_1095
AX11496	594539	WMWMILAP_1095
AX11497	594539	WMWMILAP_1095



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 0.5 mg 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 2.5 mg and 200 mg residue with the exception of samples AX11375, AX11488, AX11490 and AX11497 which did not meet the 2.5mg requirement.

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: WMWMILAP
 Sample Date: 15-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX11365

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00167	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0229	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	2.54	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	169	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	J 0.000849	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.206	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0365	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		125	1660	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	8.1	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.63	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	900	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 15-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX11365

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115	87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115	96.0	70 to 130	0.118	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15	94.0	70 to 130	0.319	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115	95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115	98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115	110	70 to 130	1.19	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115	96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115	83.3	70 to 130	0.0726	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115	104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115	95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046	93.7	70 to 130	1.87	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75	90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23	107	70 to 130	1.61	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115	97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115	80.5	70 to 130	0.312	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 15-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX11365

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11371	Solids, Dissolved	mg/L	6.00	25			944	53.0	40 to 60		0.00
											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

Customer Account: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX11366

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	0.0103	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0229	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.477	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	234	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00736	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.120	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0232	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		100	1300	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		2	1.20	4.0	55	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.30	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	630	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX11366

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115	87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115	96.0	70 to 130	0.118	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15	94.0	70 to 130	0.319	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115	104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115	95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046	93.7	70 to 130	1.87	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115	95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115	98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115	110	70 to 130	1.19	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115	97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115	80.5	70 to 130	0.312	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75	90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23	107	70 to 130	1.61	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115	96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115	83.3	70 to 130	0.0726	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX11366

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX11371	Solids, Dissolved	mg/L	6.00	25				944	53.0	40 to 60			0.00 5

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Expiration: June 30, 2017

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CC:

Alabama Power General Test Laboratory
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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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX11367

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00124	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.108	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.178	mg/L
* Calcium, Total	HRG	6/13/2017	EPA 200.7		2	0.1	0.5	4.23	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.199	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0281	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		50	608	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	31	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.24	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	160	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America, Pensacola NELAP ID: E81010

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX11367

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115	87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115	96.0	70 to 130	0.118	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15	94.0	70 to 130	0.319	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75	90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23	107	70 to 130	1.61	20
AX11374	Barium, Total	mg/L	-0.00000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115	96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115	83.3	70 to 130	0.0726	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115	95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115	98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115	110	70 to 130	1.19	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115	97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115	80.5	70 to 130	0.312	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115	104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115	95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046	93.7	70 to 130	1.87	20

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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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX11367

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX11371	Solids, Dissolved	mg/L	6.00	25				944	53.0	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX11368

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0121	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.482	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	279	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	J 0.000266	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0379	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.100	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00300	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		100	1420	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	50	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.28	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	780	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX11368

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115	87.4	70 to 130	2.49	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15	94.0	70 to 130	0.319	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115	96.0	70 to 130	0.118	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75	90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23	107	70 to 130	1.61	20
AX11374	Barium, Total	mg/L	-0.00000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115	96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115	83.3	70 to 130	0.0726	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115	95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115	98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115	110	70 to 130	1.19	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115	97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115	80.5	70 to 130	0.312	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115	104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115	95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046	93.7	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX11368

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
								Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX11371	Solids, Dissolved	mg/L	6.00	25				944	53.0	40 to 60			0.00	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX11369

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0139	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.484	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	277	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	J 0.000267	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0386	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.101	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00324	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		100	1450	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	50	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.26	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	800	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX11369

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115		96.0	70 to 130	0.118	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15		94.0	70 to 130	0.319	20
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115		87.4	70 to 130	2.49	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75		90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23		107	70 to 130	1.61	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115		95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115		98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115		110	70 to 130	1.19	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115		104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115		95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046		93.7	70 to 130	1.87	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115		96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115		83.3	70 to 130	0.0726	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115		97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115		80.5	70 to 130	0.312	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX11369

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX11371	Solids, Dissolved	mg/L	6.00	25			944	53.0	40 to 60			0.00	5

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Issued By: State of Florida, Department of Health

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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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX11370

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0268	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.810	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	145	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0725	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.0778	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00662	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		50	924	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	30	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	J 0.090	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	490	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX11370

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115		87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115		96.0	70 to 130	0.118	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115		95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115		98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115		110	70 to 130	1.19	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115		104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115		95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046		93.7	70 to 130	1.87	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115		97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115		80.5	70 to 130	0.312	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75		90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23		107	70 to 130	1.61	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115		96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115		83.3	70 to 130	0.0726	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15		94.0	70 to 130	0.319	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX11370

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX11371	Solids, Dissolved	mg/L	6.00	25				944	53.0	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX11371

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0250	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.816	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	143	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0685	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.0781	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00660	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		50	944	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	30	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	J 0.090	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	490	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX11371

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115		87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115		96.0	70 to 130	0.118	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15		94.0	70 to 130	0.319	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75		90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23		107	70 to 130	1.61	20
AX11374	Barium, Total	mg/L	-0.00000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115		96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115		83.3	70 to 130	0.0726	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115		97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115		80.5	70 to 130	0.312	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115		95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115		98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115		110	70 to 130	1.19	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115		104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115		95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046		93.7	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-6 Dup

Laboratory ID Number: AX11371

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX11371	Solids, Dissolved	mg/L	6.00	25			944	53.0	40 to 60			0.00	5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX11372

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00230	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0384	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.647	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	78.6	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.146	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0281	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		50	630	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	25	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.18	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	250	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX11372

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115		87.4	70 to 130	2.49	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15		94.0	70 to 130	0.319	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115		96.0	70 to 130	0.118	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115		95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115		98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115		110	70 to 130	1.19	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115		96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115		83.3	70 to 130	0.0726	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75		90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23		107	70 to 130	1.61	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115		104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115		95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046		93.7	70 to 130	1.87	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115		97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115		80.5	70 to 130	0.312	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX11372

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX11376	Solids, Dissolved	mg/L	2.00	25				858	51.0	40 to 60			0.694	5

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Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX11373

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00150	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0319	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	0.691	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	105	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	0.109	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00836	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	772	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	26	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	340	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2017

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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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX11373

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115	87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115	96.0	70 to 130	0.118	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15	94.0	70 to 130	0.319	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115	95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115	98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115	110	70 to 130	1.19	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115	104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115	95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046	93.7	70 to 130	1.87	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115	96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115	83.3	70 to 130	0.0726	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75	90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23	107	70 to 130	1.61	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115	97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115	80.5	70 to 130	0.312	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX11373

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America, Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
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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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX11374

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0202	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/13/2017	EPA 200.7		2	0.02	0.1	1.45	mg/L
* Calcium, Total	HRG	6/13/2017	EPA 200.7		2	0.1	0.5	57.3	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	J 0.000683	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/13/2017	EPA 200.7		2	0.010	0.05	J 0.0329	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0500	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	698	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	4.6	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.43	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	320	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX11374

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11374	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0874	0.0896	0.0939	0.085 to 0.115		87.4	70 to 130	2.49	20
AX11374	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.146	0.146	0.0948	0.085 to 0.115		96.0	70 to 130	0.118	20
AX11374	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.117	0.115	0.100	0.085 to 0.115		96.8	70 to 130	1.60	20
AX11374	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0833	0.0833	0.102	0.085 to 0.115		83.3	70 to 130	0.0726	20
AX11374	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.104	0.103	0.109	0.085 to 0.115		104	70 to 130	1.30	20
AX11374	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0952	0.0958	0.0981	0.085 to 0.115		95.2	70 to 130	0.685	20
AX11374	Mercury, Total by CVAA	mg/L	0.0000671	0.0005	0.004	0.00375	0.00382	0.00364	0.0034 to 0.0046		93.7	70 to 130	1.87	20
AX11374	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0977	0.0989	0.102	0.085 to 0.115		97.7	70 to 130	1.24	20
AX11374	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0805	0.0807	0.0992	0.085 to 0.115		80.5	70 to 130	0.312	20
AX11374	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0962	0.0975	0.0954	0.085 to 0.115		95.6	70 to 130	1.35	20
AX11374	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0984	0.0994	0.101	0.085 to 0.115		98.4	70 to 130	0.956	20
AX11374	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.110	0.111	0.112	0.085 to 0.115		110	70 to 130	1.19	20
AX11374	Calcium, Total	mg/L	-0.0377	0.22	5.00	61.8	61.5	4.88	4.25 to 5.75		90.4	70 to 130	0.389	20
AX11374	Lithium, Total	mg/L	-0.0000839	0.022	0.20	0.247	0.251	0.184	0.17 to 0.23		107	70 to 130	1.61	20
AX11374	Boron, Total	mg/L	-0.00171	0.044	1.00	2.39	2.39	0.899	0.85 to 1.15		94.0	70 to 130	0.319	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX11374

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60		1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11375

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11375

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20	
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11375

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60			1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 15-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX11376

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00183	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0753	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	J 0.0636	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	104	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0123	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.150	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00866	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/22/2017	SM 2540C		1		50	870	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	410	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 15-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX11376

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	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, 2017

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: WMWMILAP
 Sample Date: 15-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX11376

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11376	Solids, Dissolved	mg/L	2.00	25			858	51.0	40 to 60		0.694
											5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX11377

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0247	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	J 0.0319	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	160	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.128	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		100	1080	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	7.1	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	590	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX11377

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX11377

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX11378

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00156	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0162	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	0.167	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	241	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0815	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.250	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		125	2400	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	6.6	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	J 0.070	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		60	84.0	300	1500	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX11378

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115		94.4	70 to 130		0.894	20
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115		86.9	70 to 130		3.11	20
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115		87.7	70 to 130		2.26	20
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23		95.3	70 to 130		0.793	20
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115		88.2	70 to 130		2.57	20
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115		75.7	70 to 130		0.685	20
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15		101	70 to 130		1.04	20
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115		102	70 to 130		3.24	20
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115		88.3	70 to 130		2.14	20
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115		88.7	70 to 130		2.70	20
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75		87.5	70 to 130		10.8	20
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046		91.6	70 to 130		0.150	20
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115		73.5	70 to 130		0.542	20
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115		87.4	70 to 130		2.60	20
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115		82.4	70 to 130		0.131	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX11378

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
								Duplicate	LFB	Limit	Rec	Limit	Prec
AX11487	Solids, Dissolved	mg/L	2.00	25				220	49.0	40 to 60			1.62
													5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX11379

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.100	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	0.168	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	40.4	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	J 0.0210	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	283	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	20	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	62	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX11379

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX11379

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	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

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX11380

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0276	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	2.67	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	154	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00418	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	J 0.0297	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00405	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	880	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	21	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	470	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, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX11380

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20	
AX11488	Barium, Total	mg/L	-0.00000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX11380

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AX11381

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0290	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	2.66	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	151	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00425	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	J 0.0302	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00444	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00210	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	892	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	21	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	480	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AX11381

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115		94.4	70 to 130	0.894	20
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115		86.9	70 to 130	3.11	20
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15		101	70 to 130	1.04	20
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115		102	70 to 130	3.24	20
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115		88.3	70 to 130	2.14	20
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115		88.7	70 to 130	2.70	20
AX11488	Barium, Total	mg/L	-0.00000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115		87.7	70 to 130	2.26	20
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23		95.3	70 to 130	0.793	20
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75		87.5	70 to 130	10.8	20
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046		91.6	70 to 130	0.150	20
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115		73.5	70 to 130	0.542	20
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115		88.2	70 to 130	2.57	20
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115		75.7	70 to 130	0.685	20
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115		87.4	70 to 130	2.60	20
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115		82.4	70 to 130	0.131	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 16-May-17
 Customer ID:
 Delivery Date: 17-May-17

Description: Miller Ash Pond - MW-16 Dup

Laboratory ID Number: AX11381

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX11486

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00213	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0132	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	2.71	mg/L
* Calcium, Total	HRG	5/26/2017	EPA 200.7		10	1	5	124	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00210	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.163	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0741	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		100	1280	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	8.1	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.33	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	620	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX11486

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	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, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX11486

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX11487

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0762	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	0.157	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	32.8	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	J 0.0213	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	213	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	7.8	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		5	7.00	25	37	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, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX11487

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20	
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX11487

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11487	Solids, Dissolved	mg/L	2.00	25			220	49.0	40 to 60	1.62	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11488

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	0.748	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11488

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11488	Beryllium, Total	mg/L	0.0000195	0.00132	0.10	0.0944	0.0953	0.109	0.085 to 0.115	94.4	70 to 130	0.894	20	
AX11488	Molybdenum, Total	mg/L	0.0000185	0.0044	0.10	0.0869	0.0897	0.0948	0.085 to 0.115	86.9	70 to 130	3.11	20	
AX11488	Boron, Total	mg/L	0.00363	0.044	1.00	1.01	1.00	0.974	0.85 to 1.15	101	70 to 130	1.04	20	
AX11488	Cobalt, Total	mg/L	0.00000838	0.0044	0.10	0.102	0.105	0.112	0.085 to 0.115	102	70 to 130	3.24	20	
AX11488	Chromium, Total	mg/L	0.0000121	0.0044	0.10	0.0882	0.0905	0.0981	0.085 to 0.115	88.2	70 to 130	2.57	20	
AX11488	Lead, Total	mg/L	0.0000105	0.0022	0.10	0.0757	0.0763	0.102	0.085 to 0.115	75.7	70 to 130	0.685	20	
AX11488	Barium, Total	mg/L	-0.000000815	0.0044	0.10	0.0877	0.0897	0.100	0.085 to 0.115	87.7	70 to 130	2.26	20	
AX11488	Lithium, Total	mg/L	0.000393	0.022	0.20	0.191	0.192	0.201	0.17 to 0.23	95.3	70 to 130	0.793	20	
AX11488	Arsenic, Total	mg/L	0.0000153	0.0022	0.10	0.0874	0.0897	0.101	0.085 to 0.115	87.4	70 to 130	2.60	20	
AX11488	Cadmium, Total	mg/L	0.0000100	0.00044	0.10	0.0824	0.0825	0.0939	0.085 to 0.115	82.4	70 to 130	0.131	20	
AX11488	Calcium, Total	mg/L	0.0991	0.22	5.00	5.13	4.60	4.85	4.25 to 5.75	87.5	70 to 130	10.8	20	
AX11488	Mercury, Total by CVAA	mg/L	0.0000747	0.0005	0.004	0.00366	0.00366	0.00348	0.0034 to 0.0046	91.6	70 to 130	0.150	20	
AX11488	Thallium, Total	mg/L	0.0000123	0.00044	0.10	0.0735	0.0739	0.0992	0.085 to 0.115	73.5	70 to 130	0.542	20	
AX11488	Antimony, Total	mg/L	0.0000632	0.00132	0.10	0.0883	0.0903	0.0954	0.085 to 0.115	88.3	70 to 130	2.14	20	
AX11488	Selenium, Total	mg/L	0.0000588	0.0044	0.10	0.0887	0.0911	0.102	0.085 to 0.115	88.7	70 to 130	2.70	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11488

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60	0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX11489

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8	5		0.0010	0.005	J 0.00306	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8	5		0.0020	0.01	0.110	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7	2		0.02	0.1	0.462	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7	2		0.1	0.5	26.7	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8	5		0.00060	0.003	J 0.000975	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7	2		0.01	0.05	0.177	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8	5		0.0020	0.01	J 0.00447	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C	1			50	718	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E	1		0.60	2.00	37	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C	1		0.032	0.10	1.0	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E	10		14.0	50	190	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX11489

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	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, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX11489

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60		0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPEB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX11490

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPEB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX11490

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPEB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX11490

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60		0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX11491

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	0.0138	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0149	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	0.953	mg/L
* Calcium, Total	HRG	5/20/2017	EPA 200.7		10	1	5	296	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.247	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0733	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		100	1630	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		2	1.20	4.0	53	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.29	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	930	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX11491

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX11491

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
								Duplicate	LFB	Limit	Rec	Limit	Prec
AX11496	Solids, Dissolved	mg/L	2.00	25				337	49.0	40 to 60			0.149
													5

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Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX11492

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0367	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	1.13	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	53.7	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	J 0.00360	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	J 0.0402	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0270	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	664	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	7.1	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.29	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		20	28.0	100	300	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX11492

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	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, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX11492

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60		0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX11493

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00207	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0110	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	0.735	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	67.3	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0194	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.0783	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	822	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	450	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX11493

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX11493

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60	0.149	5

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Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX11494

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0314	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	0.358	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	57.1	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.132	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		50	782	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	8.3	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		30	42.0	150	410	mg/L

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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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX11494

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.0000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX11494

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60		0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX11495

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00306	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0182	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	J 0.0950	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	16.1	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0209	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	0.0841	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	335	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	8.9	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	J 0.090	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	110	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX11495

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX11495

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60	0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX11496

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	J 0.00150	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	0.0725	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	J 0.0781	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	48.7	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	J 0.0403	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	336	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	0.13	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		10	14.0	50	66	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX11496

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.00000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAP
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX11496

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60		0.149
											5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11497

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	5/19/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	5/19/2017	EPA 200.7		2	0.1	0.5	0.527	mg/L
* Cadmium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	5/23/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/23/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	5/19/2017	EPA 200.7		2	0.01	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	5/23/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	5/23/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	5/23/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	5/23/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	6/12/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	6/12/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	6/12/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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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: WMWMILAPFB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11497

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX11497	Mercury, Total by CVAA	mg/L	0.0000787	0.0005	0.004	0.00377	0.00369	0.00346	0.0034 to 0.0046		94.2	70 to 130	2.21	20
AX11497	Thallium, Total	mg/L	0.0000128	0.00044	0.10	0.0725	0.0792	0.0971	0.085 to 0.115		72.5	70 to 130	8.84	20
AX11497	Boron, Total	mg/L	-0.0000563	0.044	1.00	0.986	0.993	0.965	0.85 to 1.15		98.6	70 to 130	0.653	20
AX11497	Chromium, Total	mg/L	0.0000168	0.0044	0.10	0.0858	0.0954	0.0938	0.085 to 0.115		85.8	70 to 130	10.6	20
AX11497	Cobalt, Total	mg/L	0.0000905	0.0044	0.10	0.0994	0.110	0.107	0.085 to 0.115		99.4	70 to 130	10.1	20
AX11497	Selenium, Total	mg/L	0.0000733	0.0044	0.10	0.0859	0.0978	0.100	0.085 to 0.115		85.9	70 to 130	13.0	20
AX11497	Arsenic, Total	mg/L	0.0000136	0.0022	0.10	0.0847	0.0943	0.0981	0.085 to 0.115		84.7	70 to 130	10.8	20
AX11497	Barium, Total	mg/L	-0.00000439	0.0044	0.10	0.0860	0.0962	0.0969	0.085 to 0.115		86.0	70 to 130	11.2	20
AX11497	Cadmium, Total	mg/L	0.00000545	0.00044	0.10	0.0792	0.0890	0.0898	0.085 to 0.115		79.2	70 to 130	11.6	20
AX11497	Calcium, Total	mg/L	-0.0105	0.22	5.00	4.72	5.24	4.90	4.25 to 5.75		83.8	70 to 130	10.5	20
AX11497	Beryllium, Total	mg/L	0.0000143	0.00132	0.10	0.0902	0.102	0.108	0.085 to 0.115		90.2	70 to 130	12.6	20
AX11497	Lithium, Total	mg/L	-0.0000481	0.022	0.20	0.197	0.195	0.205	0.17 to 0.23		98.7	70 to 130	1.38	20
AX11497	Antimony, Total	mg/L	0.0000579	0.00132	0.10	0.0846	0.0957	0.0931	0.085 to 0.115		84.6	70 to 130	12.3	20
AX11497	Lead, Total	mg/L	0.00000951	0.0022	0.10	0.0747	0.0820	0.0995	0.085 to 0.115		74.7	70 to 130	9.42	20
AX11497	Molybdenum, Total	mg/L	0.0000160	0.0044	0.10	0.0849	0.0938	0.0909	0.085 to 0.115		84.9	70 to 130	9.93	20

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Expiration: June 30, 2017

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: WMWMILAPFB
 Sample Date: 17-May-17
 Customer ID:
 Delivery Date: 18-May-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX11497

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX11496	Solids, Dissolved	mg/L	2.00	25			337	49.0	40 to 60			0.149	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: Test America, Pensacola NELAP ID: E81010

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 05/17/2017 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (250mL): Anions		
Comments	Relinquished after hours to shipping lab in secure Building 8, General Services Complex at 1944 on 5/16/17 Received from shipping lab. All anions outsourced to Test America, Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	05/15/2017	15:22	4	Groundwater		AX11365
MW-3D	05/16/2017	09:01	4	Groundwater		AX11366
MW-3S	05/16/2017	10:20	4	Groundwater		AX11367
MW-4	05/16/2017	11:25	4	Groundwater		AX11368
MW-4 DUP	05/16/2017	11:25	4	Sample Duplicate		AX11369
MW-6	05/16/2017	13:00	4	Groundwater		AX11370
MW-6 DUP	05/16/2017	13:00	4	Sample Duplicate		AX11371
MW-7S	05/16/2017	14:00	4	Groundwater		AX11372
MW-7D	05/16/2017	15:06	4	Groundwater		AX11373
MW-8S	05/16/2017	16:09	4	Groundwater		AX11374
FB-1	05/16/2017	16:35	4	Field Blank		AX11375

Relinquished By	Received By	Date/Time
		05/16/2017 17:54
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.05.17 11:43:11 -0500</small>	05/17/2017 11:43

SmarTroll ID	5151-26193-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp
		5408-27568-2-2
		Thermometer ID
		5521-28268-20-12
		pH Strip ID



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Jason Rouss"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (250mL): Anions"/>		
Comments	<input type="text" value="Relinquished after hours to shipping lab in secure Building 8, General Services Complex at 1944 on 5/16/17
Received from shipping lab.
All anions outsourced to Test America, Pensacola."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	05/15/2017	16:48	4	Groundwater		AX11376
MW-11	05/16/2017	10:40	4	Groundwater		AX11377
MW-2	05/16/2017	13:46	4	Groundwater		AX11378
MW-15	05/16/2017	15:43	4	Groundwater		AX11379
MW-16	05/16/2017	16:59	4	Groundwater		AX11380
MW-16 Dup	05/16/2017	16:59	4	Sample Duplicate		AX11381

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopella@southerncco.com, c=US Date: 2017.05.17 11:47:04 -05'00'</small>	05/17/2017 11:47

SmarTroll ID <input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID <input type="text" value="4677-23342-4-1"/>	
	Cooler Temp <input type="text" value="0.8 degrees C"/>
	Thermometer ID <input type="text" value="5408-27568-2-2"/>
	pH Strip ID <input type="text" value="5521-28268-20-12"/>



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

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Jason Rouss"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (250mL): Anions"/>		
Comments	<input type="text" value="All anions outsourced to Test America, Pensacola."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	05/17/2017	09:20	4	Groundwater		AX11486
MW-14	05/17/2017	11:18	4	Groundwater		AX11487
FB-3	05/17/2017	11:40	4	Field Blank		AX11488
PZ-5	05/17/2017	14:12	4	Groundwater		AX11489
EB-1	05/17/2017	14:55	4	Equipment Blank		AX11490
MW-5	05/17/2017	16:00	4	Groundwater		AX11491

Relinquished By	Received By	Date/Time
	<input type="text" value="Sarah Copeland"/> <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.05.18 08:53:27 -05'00'</small>	<input type="text" value="05/18/2017 08:53"/>

SmarTroll ID	<input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="4677-23342-4-1"/>	Cooler Temp
		<input type="text" value="0.0 degrees C"/>
		Thermometer ID
		<input type="text" value="5408-27568-2-2"/>
		pH Strip ID
		<input type="text" value="5521-28268-20-12"/>



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 05/18/2017 08:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Ben Rothschild	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (250mL): Anions		
Comments	All anions outsourced to Test America, Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8D	05/17/2017	08:50	4	Groundwater		AX11492
MW-9D	05/17/2017	10:05	4	Groundwater		AX11493
MW-9S	05/17/2017	11:38	4	Groundwater		AX11494
MW-13S	05/17/2017	13:06	4	Groundwater		AX11495
MW-13D	05/17/2017	14:18	4	Groundwater		AX11496
FB-2	05/17/2017	14:55	4	Field Blank		AX11497

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.05.18 08:55:14 -05'00'</small>	05/18/2017 08:55

SmarTroll ID	5151-26193-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp
		5408-27568-2-2
		Thermometer ID
		5521-28268-20-12
		pH Strip ID

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: 400-138231-1

TestAmerica Sample Delivery Group: Miller Ash Pond (7)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

6/7/2017 3:19:53 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 Miller

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Job ID: 400-138231-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-138231-1

General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX11366 MW-3D (400-138231-2) and AX11491 MW-5 (400-138231-23). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX11365 MW-12 (400-138231-1), AX11366 MW-3D (400-138231-2), AX11367 MW-3S (400-138231-3), AX11368 MW-4 (400-138231-4), AX11369 MW-4 DUP (400-138231-5), AX11370 MW-6 (400-138231-6), AX11371 MW-6 DUP (400-138231-7), AX11372 MW-7S (400-138231-8), AX11373 MW-7D (400-138231-9), AX11374 MW-8S (400-138231-10), AX11376 MW-1 (400-138231-12), AX11377 MW-11 (400-138231-13), AX11378 MW-2 (400-138231-14), AX11379 MW-15 (400-138231-15), AX11380 MW-16 (400-138231-16), AX11381 MW-16 DUP (400-138231-17), AX11486 MW-10 (400-138231-18), AX11487 MW-14 (400-138231-19), AX11489 PZ-5 (400-138231-21), AX11491 MW-5 (400-138231-23), AX11492 MW-8D (400-138231-24), AX11493 MW-9D (400-138231-25), AX11494 MW-9S (400-138231-26), AX11495 MW-13S (400-138231-27) and AX11496 MW-13D (400-138231-28). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 354838 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 354917 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 Miller

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11365 MW-12

Lab Sample ID: 400-138231-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.63		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	900		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11366 MW-3D

Lab Sample ID: 400-138231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	55		4.0	1.2	mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.30		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	630		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11367 MW-3S

Lab Sample ID: 400-138231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31		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	160		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11368 MW-4

Lab Sample ID: 400-138231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	50		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	780		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11369 MW-4 DUP

Lab Sample ID: 400-138231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	50		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.26		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	800		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11370 MW-6

Lab Sample ID: 400-138231-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30		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	490		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11371 MW-6 DUP

Lab Sample ID: 400-138231-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30		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	490		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11372 MW-7S

Lab Sample ID: 400-138231-8

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

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11372 MW-7S (Continued)

Lab Sample ID: 400-138231-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.18		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: AX11373 MW-7D

Lab Sample ID: 400-138231-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26		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	340		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11374 MW-8S

Lab Sample ID: 400-138231-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.43		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	320	F1	50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11375 FB-1

Lab Sample ID: 400-138231-11

No Detections.

Client Sample ID: AX11376 MW-1

Lab Sample ID: 400-138231-12

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	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	410		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11377 MW-11

Lab Sample ID: 400-138231-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	590		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11378 MW-2

Lab Sample ID: 400-138231-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.6		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	1500		300	84	mg/L	60		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11379 MW-15

Lab Sample ID: 400-138231-15

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
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	62		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11380 MW-16

Lab Sample ID: 400-138231-16

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11380 MW-16 (Continued)

Lab Sample ID: 400-138231-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21		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	470		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11381 MW-16 DUP

Lab Sample ID: 400-138231-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21		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	480		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11486 MW-10

Lab Sample ID: 400-138231-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.33		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	620		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11487 MW-14

Lab Sample ID: 400-138231-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		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	37		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11488 FB-3

Lab Sample ID: 400-138231-20

No Detections.

Client Sample ID: AX11489 PZ-5

Lab Sample ID: 400-138231-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	1.0		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	190		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11490 EB-1

Lab Sample ID: 400-138231-22

No Detections.

Client Sample ID: AX11491 MW-5

Lab Sample ID: 400-138231-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	53		4.0	1.2	mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.29		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	930		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11492 MW-8D

Lab Sample ID: 400-138231-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.1		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 Miller

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11492 MW-8D (Continued)

Lab Sample ID: 400-138231-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.29		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	300		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11493 MW-9D

Lab Sample ID: 400-138231-25

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	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	450		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11494 MW-9S

Lab Sample ID: 400-138231-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.14		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	410		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11495 MW-13S

Lab Sample ID: 400-138231-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		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	110		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11496 MW-13D

Lab Sample ID: 400-138231-28

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	0.13		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	66		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX11497 FB-2

Lab Sample ID: 400-138231-29

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 Miller

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

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 Miller

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-138231-1	AX11365 MW-12	Water	05/15/17 15:22	05/22/17 08:48
400-138231-2	AX11366 MW-3D	Water	05/16/17 09:01	05/22/17 08:48
400-138231-3	AX11367 MW-3S	Water	05/16/17 10:20	05/22/17 08:48
400-138231-4	AX11368 MW-4	Water	05/16/17 11:25	05/22/17 08:48
400-138231-5	AX11369 MW-4 DUP	Water	05/16/17 11:25	05/22/17 08:48
400-138231-6	AX11370 MW-6	Water	05/16/17 13:00	05/22/17 08:48
400-138231-7	AX11371 MW-6 DUP	Water	05/16/17 13:00	05/22/17 08:48
400-138231-8	AX11372 MW-7S	Water	05/16/17 14:00	05/22/17 08:48
400-138231-9	AX11373 MW-7D	Water	05/16/17 15:06	05/22/17 08:48
400-138231-10	AX11374 MW-8S	Water	05/16/17 16:09	05/22/17 08:48
400-138231-11	AX11375 FB-1	Water	05/16/17 16:35	05/22/17 08:48
400-138231-12	AX11376 MW-1	Water	05/15/17 16:48	05/22/17 08:48
400-138231-13	AX11377 MW-11	Water	05/16/17 10:40	05/22/17 08:48
400-138231-14	AX11378 MW-2	Water	05/16/17 13:46	05/22/17 08:48
400-138231-15	AX11379 MW-15	Water	05/16/17 15:43	05/22/17 08:48
400-138231-16	AX11380 MW-16	Water	05/16/17 16:59	05/22/17 08:48
400-138231-17	AX11381 MW-16 DUP	Water	05/16/17 16:59	05/22/17 08:48
400-138231-18	AX11486 MW-10	Water	05/17/17 09:20	05/22/17 08:48
400-138231-19	AX11487 MW-14	Water	05/17/17 11:18	05/22/17 08:48
400-138231-20	AX11488 FB-3	Water	05/17/17 11:40	05/22/17 08:48
400-138231-21	AX11489 PZ-5	Water	05/17/17 14:12	05/22/17 08:48
400-138231-22	AX11490 EB-1	Water	05/17/17 14:55	05/22/17 08:48
400-138231-23	AX11491 MW-5	Water	05/17/17 16:00	05/22/17 08:48
400-138231-24	AX11492 MW-8D	Water	05/17/17 08:50	05/22/17 08:48
400-138231-25	AX11493 MW-9D	Water	05/17/17 10:05	05/22/17 08:48
400-138231-26	AX11494 MW-9S	Water	05/17/17 11:38	05/22/17 08:48
400-138231-27	AX11495 MW-13S	Water	05/17/17 13:06	05/22/17 08:48
400-138231-28	AX11496 MW-13D	Water	05/17/17 14:18	05/22/17 08:48
400-138231-29	AX11497 FB-2	Water	05/17/17 14:55	05/22/17 08:48

Client Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11365 MW-12

Lab Sample ID: 400-138231-1

Date Collected: 05/15/17 15:22

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.63		0.10	0.032	mg/L			06/01/17 18:12	1
Sulfate	900		150	42	mg/L			05/24/17 15:41	30

Client Sample ID: AX11366 MW-3D

Lab Sample ID: 400-138231-2

Date Collected: 05/16/17 09:01

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55		4.0	1.2	mg/L			05/24/17 15:47	2
Fluoride	0.30		0.10	0.032	mg/L			06/01/17 18:14	1
Sulfate	630		150	42	mg/L			05/24/17 15:41	30

Client Sample ID: AX11367 MW-3S

Lab Sample ID: 400-138231-3

Date Collected: 05/16/17 10:20

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.24		0.10	0.032	mg/L			06/01/17 18:16	1
Sulfate	160		50	14	mg/L			05/24/17 15:52	10

Client Sample ID: AX11368 MW-4

Lab Sample ID: 400-138231-4

Date Collected: 05/16/17 11:25

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.28		0.10	0.032	mg/L			06/01/17 18:18	1
Sulfate	780		150	42	mg/L			05/24/17 15:52	30

Client Sample ID: AX11369 MW-4 DUP

Lab Sample ID: 400-138231-5

Date Collected: 05/16/17 11:25

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.26		0.10	0.032	mg/L			06/03/17 12:53	1
Sulfate	800		150	42	mg/L			05/25/17 10:09	30

Client Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11370 MW-6

Lab Sample ID: 400-138231-6

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/03/17 12:55	1
Sulfate	490		150	42	mg/L			05/24/17 15:52	30

Client Sample ID: AX11371 MW-6 DUP

Lab Sample ID: 400-138231-7

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/03/17 12:57	1
Sulfate	490		150	42	mg/L			05/24/17 15:56	30

Client Sample ID: AX11372 MW-7S

Lab Sample ID: 400-138231-8

Date Collected: 05/16/17 14:00

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.18		0.10	0.032	mg/L			06/03/17 12:59	1
Sulfate	250		50	14	mg/L			05/24/17 15:57	10

Client Sample ID: AX11373 MW-7D

Lab Sample ID: 400-138231-9

Date Collected: 05/16/17 15:06

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.10		0.10	0.032	mg/L			06/03/17 13:02	1
Sulfate	340		50	14	mg/L			05/24/17 15:57	10

Client Sample ID: AX11374 MW-8S

Lab Sample ID: 400-138231-10

Date Collected: 05/16/17 16:09

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		2.0	0.60	mg/L			05/24/17 15:04	1
Fluoride	0.43		0.10	0.032	mg/L			06/03/17 12:31	1
Sulfate	320	F1	50	14	mg/L			05/24/17 15:57	10

Client Sample ID: AX11375 FB-1

Lab Sample ID: 400-138231-11

Date Collected: 05/16/17 16:35

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/24/17 15:13	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11375 FB-1

Lab Sample ID: 400-138231-11

Date Collected: 05/16/17 16:35

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 13:04	1
Sulfate	<1.4		5.0	1.4	mg/L			05/24/17 15:17	1

Client Sample ID: AX11376 MW-1

Lab Sample ID: 400-138231-12

Date Collected: 05/15/17 16:48

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			05/24/17 15:13	1
Fluoride	0.14		0.10	0.032	mg/L			06/03/17 13:06	1
Sulfate	410		150	42	mg/L			05/24/17 16:00	30

Client Sample ID: AX11377 MW-11

Lab Sample ID: 400-138231-13

Date Collected: 05/16/17 10:40

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.1		2.0	0.60	mg/L			05/24/17 15:13	1
Fluoride	0.14		0.10	0.032	mg/L			06/03/17 13:13	1
Sulfate	590		150	42	mg/L			05/24/17 16:00	30

Client Sample ID: AX11378 MW-2

Lab Sample ID: 400-138231-14

Date Collected: 05/16/17 13:46

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.6		2.0	0.60	mg/L			05/24/17 15:13	1
Fluoride	0.070	J	0.10	0.032	mg/L			06/03/17 13:44	1
Sulfate	1500		300	84	mg/L			05/24/17 16:14	60

Client Sample ID: AX11379 MW-15

Lab Sample ID: 400-138231-15

Date Collected: 05/16/17 15:43

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	0.10		0.10	0.032	mg/L			06/03/17 13:46	1
Sulfate	62		50	14	mg/L			05/25/17 09:32	10

Client Sample ID: AX11380 MW-16

Lab Sample ID: 400-138231-16

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	0.13		0.10	0.032	mg/L			06/03/17 13:48	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11380 MW-16

Lab Sample ID: 400-138231-16

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	470		150	42	mg/L			05/25/17 09:32	30

Client Sample ID: AX11381 MW-16 DUP

Lab Sample ID: 400-138231-17

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	0.13		0.10	0.032	mg/L			06/03/17 13:50	1
Sulfate	480		150	42	mg/L			05/25/17 09:32	30

Client Sample ID: AX11486 MW-10

Lab Sample ID: 400-138231-18

Date Collected: 05/17/17 09:20

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	0.33		0.10	0.032	mg/L			06/03/17 13:52	1
Sulfate	620		150	42	mg/L			05/25/17 09:32	30

Client Sample ID: AX11487 MW-14

Lab Sample ID: 400-138231-19

Date Collected: 05/17/17 11:18

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	0.17		0.10	0.032	mg/L			06/03/17 13:54	1
Sulfate	37		25	7.0	mg/L			05/25/17 09:36	5

Client Sample ID: AX11488 FB-3

Lab Sample ID: 400-138231-20

Date Collected: 05/17/17 11:40

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 14:32	1
Sulfate	<1.4	F1	5.0	1.4	mg/L			05/25/17 08:47	1

Client Sample ID: AX11489 PZ-5

Lab Sample ID: 400-138231-21

Date Collected: 05/17/17 14:12

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	1.0		0.10	0.032	mg/L			06/03/17 13:56	1
Sulfate	190		50	14	mg/L			05/25/17 09:36	10

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11490 EB-1

Lab Sample ID: 400-138231-22

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 14:38	1
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 08:47	1

Client Sample ID: AX11491 MW-5

Lab Sample ID: 400-138231-23

Date Collected: 05/17/17 16:00

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53		4.0	1.2	mg/L			05/25/17 12:38	2
Fluoride	0.29		0.10	0.032	mg/L			06/03/17 14:40	1
Sulfate	930		150	42	mg/L			05/25/17 09:36	30

Client Sample ID: AX11492 MW-8D

Lab Sample ID: 400-138231-24

Date Collected: 05/17/17 08:50

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.1		2.0	0.60	mg/L			05/25/17 11:22	1
Fluoride	0.29		0.10	0.032	mg/L			06/03/17 14:42	1
Sulfate	300		100	28	mg/L			05/25/17 09:36	20

Client Sample ID: AX11493 MW-9D

Lab Sample ID: 400-138231-25

Date Collected: 05/17/17 10:05

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			05/25/17 11:25	1
Fluoride	0.13		0.10	0.032	mg/L			06/03/17 14:57	1
Sulfate	450		150	42	mg/L			05/25/17 09:41	30

Client Sample ID: AX11494 MW-9S

Lab Sample ID: 400-138231-26

Date Collected: 05/17/17 11:38

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		2.0	0.60	mg/L			05/25/17 11:25	1
Fluoride	0.14		0.10	0.032	mg/L			06/03/17 14:59	1
Sulfate	410		150	42	mg/L			05/25/17 09:41	30

Client Sample Results

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11495 MW-13S

Lab Sample ID: 400-138231-27

Date Collected: 05/17/17 13:06

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		2.0	0.60	mg/L			05/25/17 11:25	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/03/17 15:01	1
Sulfate	110		50	14	mg/L			05/25/17 09:41	10

Client Sample ID: AX11496 MW-13D

Lab Sample ID: 400-138231-28

Date Collected: 05/17/17 14:18

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			05/25/17 11:25	1
Fluoride	0.13		0.10	0.032	mg/L			06/03/17 15:03	1
Sulfate	66		50	14	mg/L			05/25/17 09:41	10

Client Sample ID: AX11497 FB-2

Lab Sample ID: 400-138231-29

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/25/17 11:25	1
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 15:10	1
Sulfate	<1.4	F1	5.0	1.4	mg/L			05/25/17 09:28	1

Definitions/Glossary

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 Miller

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11365 MW-12
Date Collected: 05/15/17 15:22
Date Received: 05/22/17 08:48

Lab Sample ID: 400-138231-1
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	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355640	06/01/17 18:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 15:41	BJB	TAL PEN

Client Sample ID: AX11366 MW-3D
Date Collected: 05/16/17 09:01
Date Received: 05/22/17 08:48

Lab Sample ID: 400-138231-2
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		2	354836	05/24/17 15:47	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355640	06/01/17 18:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 15:41	BJB	TAL PEN

Client Sample ID: AX11367 MW-3S
Date Collected: 05/16/17 10:20
Date Received: 05/22/17 08:48

Lab Sample ID: 400-138231-3
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	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355640	06/01/17 18:16	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354838	05/24/17 15:52	BJB	TAL PEN

Client Sample ID: AX11368 MW-4
Date Collected: 05/16/17 11:25
Date Received: 05/22/17 08:48

Lab Sample ID: 400-138231-4
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	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355640	06/01/17 18:18	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 15:52	BJB	TAL PEN

Client Sample ID: AX11369 MW-4 DUP
Date Collected: 05/16/17 11:25
Date Received: 05/22/17 08:48

Lab Sample ID: 400-138231-5
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	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 12:53	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 10:09	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11370 MW-6

Lab Sample ID: 400-138231-6

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 12:55	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 15:52	BJB	TAL PEN

Client Sample ID: AX11371 MW-6 DUP

Lab Sample ID: 400-138231-7

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 12:57	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 15:56	BJB	TAL PEN

Client Sample ID: AX11372 MW-7S

Lab Sample ID: 400-138231-8

Date Collected: 05/16/17 14:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 12:59	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354838	05/24/17 15:57	BJB	TAL PEN

Client Sample ID: AX11373 MW-7D

Lab Sample ID: 400-138231-9

Date Collected: 05/16/17 15:06

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:02	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354838	05/24/17 15:57	BJB	TAL PEN

Client Sample ID: AX11374 MW-8S

Lab Sample ID: 400-138231-10

Date Collected: 05/16/17 16:09

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:04	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 12:31	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354838	05/24/17 15:57	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11375 FB-1

Lab Sample ID: 400-138231-11

Date Collected: 05/16/17 16:35

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:13	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354838	05/24/17 15:17	BJB	TAL PEN

Client Sample ID: AX11376 MW-1

Lab Sample ID: 400-138231-12

Date Collected: 05/15/17 16:48

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:13	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:06	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 16:00	BJB	TAL PEN

Client Sample ID: AX11377 MW-11

Lab Sample ID: 400-138231-13

Date Collected: 05/16/17 10:40

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:13	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:13	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354838	05/24/17 16:00	BJB	TAL PEN

Client Sample ID: AX11378 MW-2

Lab Sample ID: 400-138231-14

Date Collected: 05/16/17 13:46

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354836	05/24/17 15:13	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:44	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		60	354838	05/24/17 16:14	BJB	TAL PEN

Client Sample ID: AX11379 MW-15

Lab Sample ID: 400-138231-15

Date Collected: 05/16/17 15:43

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:46	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354917	05/25/17 09:32	BJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11380 MW-16

Lab Sample ID: 400-138231-16

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:48	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 09:32	BJB	TAL PEN

Client Sample ID: AX11381 MW-16 DUP

Lab Sample ID: 400-138231-17

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:50	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 09:32	BJB	TAL PEN

Client Sample ID: AX11486 MW-10

Lab Sample ID: 400-138231-18

Date Collected: 05/17/17 09:20

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 09:32	BJB	TAL PEN

Client Sample ID: AX11487 MW-14

Lab Sample ID: 400-138231-19

Date Collected: 05/17/17 11:18

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	354917	05/25/17 09:36	BJB	TAL PEN

Client Sample ID: AX11488 FB-3

Lab Sample ID: 400-138231-20

Date Collected: 05/17/17 11:40

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 14:32	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354917	05/25/17 08:47	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11489 PZ-5

Lab Sample ID: 400-138231-21

Date Collected: 05/17/17 14:12

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355802	06/03/17 13:56	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354917	05/25/17 09:36	BJB	TAL PEN

Client Sample ID: AX11490 EB-1

Lab Sample ID: 400-138231-22

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 14:38	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354917	05/25/17 08:47	BJB	TAL PEN

Client Sample ID: AX11491 MW-5

Lab Sample ID: 400-138231-23

Date Collected: 05/17/17 16:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	354940	05/25/17 12:38	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 14:40	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 09:36	BJB	TAL PEN

Client Sample ID: AX11492 MW-8D

Lab Sample ID: 400-138231-24

Date Collected: 05/17/17 08:50

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 14:42	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	354917	05/25/17 09:36	BJB	TAL PEN

Client Sample ID: AX11493 MW-9D

Lab Sample ID: 400-138231-25

Date Collected: 05/17/17 10:05

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 14:57	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 09:41	BJB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-138231-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11494 MW-9S

Lab Sample ID: 400-138231-26

Date Collected: 05/17/17 11:38

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 14:59	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	354917	05/25/17 09:41	BJB	TAL PEN

Client Sample ID: AX11495 MW-13S

Lab Sample ID: 400-138231-27

Date Collected: 05/17/17 13:06

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354917	05/25/17 09:41	BJB	TAL PEN

Client Sample ID: AX11496 MW-13D

Lab Sample ID: 400-138231-28

Date Collected: 05/17/17 14:18

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:03	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	354917	05/25/17 09:41	BJB	TAL PEN

Client Sample ID: AX11497 FB-2

Lab Sample ID: 400-138231-29

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	354940	05/25/17 11:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:10	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354917	05/25/17 09:28	BJB	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 Miller

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

General Chemistry

Analysis Batch: 354836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-1	AX11365 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-138231-2	AX11366 MW-3D	Total/NA	Water	SM 4500 Cl- E	
400-138231-3	AX11367 MW-3S	Total/NA	Water	SM 4500 Cl- E	
400-138231-4	AX11368 MW-4	Total/NA	Water	SM 4500 Cl- E	
400-138231-5	AX11369 MW-4 DUP	Total/NA	Water	SM 4500 Cl- E	
400-138231-6	AX11370 MW-6	Total/NA	Water	SM 4500 Cl- E	
400-138231-7	AX11371 MW-6 DUP	Total/NA	Water	SM 4500 Cl- E	
400-138231-8	AX11372 MW-7S	Total/NA	Water	SM 4500 Cl- E	
400-138231-9	AX11373 MW-7D	Total/NA	Water	SM 4500 Cl- E	
400-138231-10	AX11374 MW-8S	Total/NA	Water	SM 4500 Cl- E	
400-138231-11	AX11375 FB-1	Total/NA	Water	SM 4500 Cl- E	
400-138231-12	AX11376 MW-1	Total/NA	Water	SM 4500 Cl- E	
400-138231-13	AX11377 MW-11	Total/NA	Water	SM 4500 Cl- E	
400-138231-14	AX11378 MW-2	Total/NA	Water	SM 4500 Cl- E	
MB 400-354836/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-354836/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-354836/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-138231-10 MS	AX11374 MW-8S	Total/NA	Water	SM 4500 Cl- E	
400-138231-10 MSD	AX11374 MW-8S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 354838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-1	AX11365 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-138231-2	AX11366 MW-3D	Total/NA	Water	SM 4500 SO4 E	
400-138231-3	AX11367 MW-3S	Total/NA	Water	SM 4500 SO4 E	
400-138231-4	AX11368 MW-4	Total/NA	Water	SM 4500 SO4 E	
400-138231-6	AX11370 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-138231-7	AX11371 MW-6 DUP	Total/NA	Water	SM 4500 SO4 E	
400-138231-8	AX11372 MW-7S	Total/NA	Water	SM 4500 SO4 E	
400-138231-9	AX11373 MW-7D	Total/NA	Water	SM 4500 SO4 E	
400-138231-10	AX11374 MW-8S	Total/NA	Water	SM 4500 SO4 E	
400-138231-11	AX11375 FB-1	Total/NA	Water	SM 4500 SO4 E	
400-138231-12	AX11376 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-138231-13	AX11377 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-138231-14	AX11378 MW-2	Total/NA	Water	SM 4500 SO4 E	
MB 400-354838/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-354838/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-354838/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-138231-10 MS	AX11374 MW-8S	Total/NA	Water	SM 4500 SO4 E	
400-138231-10 MSD	AX11374 MW-8S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 354917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-5	AX11369 MW-4 DUP	Total/NA	Water	SM 4500 SO4 E	
400-138231-15	AX11379 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-138231-16	AX11380 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-138231-17	AX11381 MW-16 DUP	Total/NA	Water	SM 4500 SO4 E	
400-138231-18	AX11486 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-138231-19	AX11487 MW-14	Total/NA	Water	SM 4500 SO4 E	
400-138231-20	AX11488 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-138231-21	AX11489 PZ-5	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

General Chemistry (Continued)

Analysis Batch: 354917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-22	AX11490 EB-1	Total/NA	Water	SM 4500 SO4 E	
400-138231-23	AX11491 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-138231-24	AX11492 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-138231-25	AX11493 MW-9D	Total/NA	Water	SM 4500 SO4 E	
400-138231-26	AX11494 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-138231-27	AX11495 MW-13S	Total/NA	Water	SM 4500 SO4 E	
400-138231-28	AX11496 MW-13D	Total/NA	Water	SM 4500 SO4 E	
400-138231-29	AX11497 FB-2	Total/NA	Water	SM 4500 SO4 E	
MB 400-354917/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-354917/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-354917/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-138231-20 MS	AX11488 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-138231-20 MSD	AX11488 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-138231-29 MS	AX11497 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-138231-29 MSD	AX11497 FB-2	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 354940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-15	AX11379 MW-15	Total/NA	Water	SM 4500 CI- E	
400-138231-16	AX11380 MW-16	Total/NA	Water	SM 4500 CI- E	
400-138231-17	AX11381 MW-16 DUP	Total/NA	Water	SM 4500 CI- E	
400-138231-18	AX11486 MW-10	Total/NA	Water	SM 4500 CI- E	
400-138231-19	AX11487 MW-14	Total/NA	Water	SM 4500 CI- E	
400-138231-20	AX11488 FB-3	Total/NA	Water	SM 4500 CI- E	
400-138231-21	AX11489 PZ-5	Total/NA	Water	SM 4500 CI- E	
400-138231-22	AX11490 EB-1	Total/NA	Water	SM 4500 CI- E	
400-138231-23	AX11491 MW-5	Total/NA	Water	SM 4500 CI- E	
400-138231-24	AX11492 MW-8D	Total/NA	Water	SM 4500 CI- E	
400-138231-25	AX11493 MW-9D	Total/NA	Water	SM 4500 CI- E	
400-138231-26	AX11494 MW-9S	Total/NA	Water	SM 4500 CI- E	
400-138231-27	AX11495 MW-13S	Total/NA	Water	SM 4500 CI- E	
400-138231-28	AX11496 MW-13D	Total/NA	Water	SM 4500 CI- E	
400-138231-29	AX11497 FB-2	Total/NA	Water	SM 4500 CI- E	
MB 400-354940/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-354940/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-354940/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-138231-20 MS	AX11488 FB-3	Total/NA	Water	SM 4500 CI- E	
400-138231-20 MSD	AX11488 FB-3	Total/NA	Water	SM 4500 CI- E	
400-138231-29 MS	AX11497 FB-2	Total/NA	Water	SM 4500 CI- E	
400-138231-29 MSD	AX11497 FB-2	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 355640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-1	AX11365 MW-12	Total/NA	Water	SM 4500 F C	
400-138231-2	AX11366 MW-3D	Total/NA	Water	SM 4500 F C	
400-138231-3	AX11367 MW-3S	Total/NA	Water	SM 4500 F C	
400-138231-4	AX11368 MW-4	Total/NA	Water	SM 4500 F C	
MB 400-355640/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-355640/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-138208-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-138208-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

General Chemistry (Continued)

Analysis Batch: 355640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138208-A-8 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 355802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-5	AX11369 MW-4 DUP	Total/NA	Water	SM 4500 F C	
400-138231-6	AX11370 MW-6	Total/NA	Water	SM 4500 F C	
400-138231-7	AX11371 MW-6 DUP	Total/NA	Water	SM 4500 F C	
400-138231-8	AX11372 MW-7S	Total/NA	Water	SM 4500 F C	
400-138231-9	AX11373 MW-7D	Total/NA	Water	SM 4500 F C	
400-138231-10	AX11374 MW-8S	Total/NA	Water	SM 4500 F C	
400-138231-11	AX11375 FB-1	Total/NA	Water	SM 4500 F C	
400-138231-12	AX11376 MW-1	Total/NA	Water	SM 4500 F C	
400-138231-13	AX11377 MW-11	Total/NA	Water	SM 4500 F C	
400-138231-14	AX11378 MW-2	Total/NA	Water	SM 4500 F C	
400-138231-15	AX11379 MW-15	Total/NA	Water	SM 4500 F C	
400-138231-16	AX11380 MW-16	Total/NA	Water	SM 4500 F C	
400-138231-17	AX11381 MW-16 DUP	Total/NA	Water	SM 4500 F C	
400-138231-18	AX11486 MW-10	Total/NA	Water	SM 4500 F C	
400-138231-19	AX11487 MW-14	Total/NA	Water	SM 4500 F C	
400-138231-21	AX11489 PZ-5	Total/NA	Water	SM 4500 F C	
MB 400-355802/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-355802/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-138231-10 MS	AX11374 MW-8S	Total/NA	Water	SM 4500 F C	
400-138231-10 MSD	AX11374 MW-8S	Total/NA	Water	SM 4500 F C	
400-138231-13 DU	AX11377 MW-11	Total/NA	Water	SM 4500 F C	

Analysis Batch: 355807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138231-20	AX11488 FB-3	Total/NA	Water	SM 4500 F C	
400-138231-22	AX11490 EB-1	Total/NA	Water	SM 4500 F C	
400-138231-23	AX11491 MW-5	Total/NA	Water	SM 4500 F C	
400-138231-24	AX11492 MW-8D	Total/NA	Water	SM 4500 F C	
400-138231-25	AX11493 MW-9D	Total/NA	Water	SM 4500 F C	
400-138231-26	AX11494 MW-9S	Total/NA	Water	SM 4500 F C	
400-138231-27	AX11495 MW-13S	Total/NA	Water	SM 4500 F C	
400-138231-28	AX11496 MW-13D	Total/NA	Water	SM 4500 F C	
400-138231-29	AX11497 FB-2	Total/NA	Water	SM 4500 F C	
MB 400-355807/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-355807/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-138231-20 MS	AX11488 FB-3	Total/NA	Water	SM 4500 F C	
400-138231-20 MSD	AX11488 FB-3	Total/NA	Water	SM 4500 F C	
400-138231-29 MS	AX11497 FB-2	Total/NA	Water	SM 4500 F C	
400-138231-29 MSD	AX11497 FB-2	Total/NA	Water	SM 4500 F C	
400-138310-A-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-354836/6
Matrix: Water
Analysis Batch: 354836

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			05/24/17 14:38	1

Lab Sample ID: LCS 400-354836/7
Matrix: Water
Analysis Batch: 354836

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	32.6		mg/L		109	90 - 110

Lab Sample ID: MRL 400-354836/3
Matrix: Water
Analysis Batch: 354836

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	1.94	J	mg/L		97	50 - 150

Lab Sample ID: 400-138231-10 MS
Matrix: Water
Analysis Batch: 354836

Client Sample ID: AX11374 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.6		10.0	15.8		mg/L		112	73 - 120

Lab Sample ID: 400-138231-10 MSD
Matrix: Water
Analysis Batch: 354836

Client Sample ID: AX11374 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	4.6		10.0	15.8		mg/L		112	73 - 120	0	8

Lab Sample ID: MB 400-354940/6
Matrix: Water
Analysis Batch: 354940

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			05/25/17 11:07	1

Lab Sample ID: LCS 400-354940/7
Matrix: Water
Analysis Batch: 354940

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	32.3		mg/L		108	90 - 110

Lab Sample ID: MRL 400-354940/3
Matrix: Water
Analysis Batch: 354940

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		88	50 - 150

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Lab Sample ID: 400-138231-20 MS
Matrix: Water
Analysis Batch: 354940

Client Sample ID: AX11488 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.60		10.0	9.65		mg/L		96	73 - 120

Lab Sample ID: 400-138231-20 MSD
Matrix: Water
Analysis Batch: 354940

Client Sample ID: AX11488 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.60		10.0	9.33		mg/L		93	73 - 120	3	8

Lab Sample ID: 400-138231-29 MS
Matrix: Water
Analysis Batch: 354940

Client Sample ID: AX11497 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.60		10.0	7.66		mg/L		77	73 - 120

Lab Sample ID: 400-138231-29 MSD
Matrix: Water
Analysis Batch: 354940

Client Sample ID: AX11497 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.60		10.0	7.44		mg/L		74	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-355640/3
Matrix: Water
Analysis Batch: 355640

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			06/01/17 17:31	1

Lab Sample ID: LCS 400-355640/4
Matrix: Water
Analysis Batch: 355640

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	4.10		mg/L		103	90 - 110

Lab Sample ID: 400-138208-A-1 MS
Matrix: Water
Analysis Batch: 355640

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	0.51		1.00	1.58		mg/L		107	75 - 125

QC Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-138208-A-1 MSD
Matrix: Water
Analysis Batch: 355640

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	0.51		1.00	1.58		mg/L		107	75 - 125	0	4

Lab Sample ID: 400-138208-A-8 DU
Matrix: Water
Analysis Batch: 355640

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.43		0.430		mg/L		0	4

Lab Sample ID: MB 400-355802/3
Matrix: Water
Analysis Batch: 355802

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			06/03/17 12:24	1

Lab Sample ID: LCS 400-355802/4
Matrix: Water
Analysis Batch: 355802

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	4.02		mg/L		101	90 - 110

Lab Sample ID: 400-138231-10 MS
Matrix: Water
Analysis Batch: 355802

Client Sample ID: AX11374 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.43		1.00	1.46		mg/L		103	75 - 125

Lab Sample ID: 400-138231-10 MSD
Matrix: Water
Analysis Batch: 355802

Client Sample ID: AX11374 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.43		1.00	1.46		mg/L		103	75 - 125	0	4

Lab Sample ID: 400-138231-13 DU
Matrix: Water
Analysis Batch: 355802

Client Sample ID: AX11377 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.14		0.140		mg/L		0	4

Lab Sample ID: MB 400-355807/3
Matrix: Water
Analysis Batch: 355807

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			06/03/17 14:24	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Lab Sample ID: LCS 400-355807/4
Matrix: Water
Analysis Batch: 355807

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: 400-138231-20 MS
Matrix: Water
Analysis Batch: 355807

Client Sample ID: AX11488 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	0.930		mg/L		93	75 - 125

Lab Sample ID: 400-138231-20 MSD
Matrix: Water
Analysis Batch: 355807

Client Sample ID: AX11488 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.930		mg/L		93	75 - 125	0	4

Lab Sample ID: 400-138231-29 MS
Matrix: Water
Analysis Batch: 355807

Client Sample ID: AX11497 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	0.900		mg/L		90	75 - 125

Lab Sample ID: 400-138231-29 MSD
Matrix: Water
Analysis Batch: 355807

Client Sample ID: AX11497 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.930		mg/L		93	75 - 125	3	4

Lab Sample ID: 400-138310-A-1 DU
Matrix: Water
Analysis Batch: 355807

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.040	J	0.0400	J	mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-354838/6
Matrix: Water
Analysis Batch: 354838

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			05/24/17 14:20	1

QC Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-354838/7
Matrix: Water
Analysis Batch: 354838

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	14.1		mg/L		94	90 - 110

Lab Sample ID: MRL 400-354838/3
Matrix: Water
Analysis Batch: 354838

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	4.24	J	mg/L		85	50 - 150

Lab Sample ID: 400-138231-10 MS
Matrix: Water
Analysis Batch: 354838

Client Sample ID: AX11374 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	320	F1	100	309	F1	mg/L		-13	77 - 128

Lab Sample ID: 400-138231-10 MSD
Matrix: Water
Analysis Batch: 354838

Client Sample ID: AX11374 MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	320	F1	100	308	F1	mg/L		-13	77 - 128	0	5

Lab Sample ID: MB 400-354917/6
Matrix: Water
Analysis Batch: 354917

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			05/25/17 08:12	1

Lab Sample ID: LCS 400-354917/7
Matrix: Water
Analysis Batch: 354917

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	13.9		mg/L		92	90 - 110

Lab Sample ID: MRL 400-354917/3
Matrix: Water
Analysis Batch: 354917

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	4.49	J	mg/L		90	50 - 150

Lab Sample ID: 400-138231-20 MS
Matrix: Water
Analysis Batch: 354917

Client Sample ID: AX11488 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4	F1	10.0	6.47	F1	mg/L		65	77 - 128

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

Lab Sample ID: 400-138231-20 MSD
Matrix: Water
Analysis Batch: 354917

Client Sample ID: AX11488 FB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1	10.0	6.42	F1	mg/L		64	77 - 128	1	5

Lab Sample ID: 400-138231-29 MS
Matrix: Water
Analysis Batch: 354917

Client Sample ID: AX11497 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1	10.0	6.30	F1	mg/L		63	77 - 128		


Lab Sample ID: 400-138231-29 MSD
Matrix: Water
Analysis Batch: 354917

Client Sample ID: AX11497 FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1	10.0	6.17	F1	mg/L		62	77 - 128	2	5

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- 13
- 14

Chain of Custody Record

Client Information Client Contact: 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: scopela@southernco.com Project #: 40007143 CCR Site: Miller Ash Pond (7)		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 1 of 3 Job #: 400-138231	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SOW#:		Analysis Requested  400-138231 COC	
Sample Identification Sample ID: AX11365 AX11366 AX11367 AX11368 AX11369 AX11370 AX11371 AX11372 AX11373 AX11374 AX11375		Sample Type (C=Comp, G=grab) G G G G G G G G G G	
Sample Date 5/15/17 5/16/17 5/16/17 5/16/17 5/16/17 5/16/17 5/16/17 5/16/17 5/16/17 5/16/17		Sample Time 1522 0901 1020 1125 1125 1300 1300 1400 1506 1609 1635	
Matrix (W=Water, S=solid, O=Other, A=Air) Water Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) X X X X X X X X X X X	
Perform MS/MSD (Yes or No) N X X X X X X X X X X		SM 4500 F.C X X X X X X X X X X	
SM 4500 C.E X X X X X X X X X X		SM 4500 S.O₄ E X X X X X X X X X X	
Field Number of Containers 1 1 1 1 1 1 1 1 1 1 1		Special Instructions/Note: MW-12 MW-3D MW-3S MW-4 MW-4 Dup (Sample Duplicate) MW-6 MW-6 Dup (Sample Duplicate) MW-7S MW-7D MW-8S FB-1 (Field Blank)	
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:			
Deliverable 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		Method of Shipment:	
Empty Kit Relinquished by: Sarah Copeland Date/Time: 05/18/2017, 1115 Company: APC		Relinquished by: <i>Whitn Chi</i> Date/Time: 5/22/17 0848 Company: JFA	
Relinquished by: Date/Time: Company:		Relinquished by: Date/Time: Company:	
Relinquished by: Date/Time: Company:		Relinquished by: Date/Time: Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 110C IR7	



Chain of Custody Record

Client Information		Sampler: Ben Rothschild		Lab PM: Whitmire, Chyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1			
Client Contact: Sarah Copeland		Phone:		E-Mail: chyenne.whitmire@testamericainc.com		Page: Page 3 of 3		Job #: 400-138231			
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify)			
Address: 744 County Rd 87 GSC #8		TAT Requested (days): Routine		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers			
City: Calera		PO #:		<input checked="" type="checkbox"/> N		<input checked="" type="checkbox"/> X		SM 4500 SO4 E			
State, Zip: AL, 35040		WO #:		<input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> X		SM 4500 Cl E			
Phone: 205-664-6121(Tel)		Project #:		<input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> X		SM 4500 F C			
Email: sgcopelal@southernco.com		CCR		<input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> X		SM 4500 SO4 E			
Site: Miller Ash Pond (7)		SSOW#:		<input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> X		SM 4500 F C			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=issue, A=air)		Special Instructions/Note:	
AX11492		5/17/17		0850		G		Water		MW-8D	
AX11493		5/17/17		1005		G		Water		MW-9D	
AX11494		5/17/17		1138		G		Water		MW-9S	
AX11495		5/17/17		1306		G		Water		MW-13S	
AX11496		5/17/17		1418		G		Water		MW-13D	
AX11497		5/17/17		1455		G		Water		FB-2 (Field 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: Sarah Copeland Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Custody Seals Intact: _____ Δ Yes Δ No										Special Instructions/QC Requirements: Method of Shipment: _____ Date: _____ Received by: _____ Date/Time: 05/16/2017; 1115 Company: APC Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-138231-1
SDG Number: Miller Ash Pond (7)

Login Number: 138231

List Number: 1

Creator: Siddoway, Benjamin

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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 Miller

TestAmerica Job ID: 400-138231-1
 SDG: Miller Ash Pond (7)

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-17



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: 400-138232-1

TestAmerica Sample Delivery Group: Miller Ash Pond (7)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

6/23/2017 4:12:57 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

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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 Miller

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Job ID: 400-138232-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-138232-1

RAD

Method(s) 9320: Radium-228 Prep Batch 160-313689: The radium-228 detection goal was not met for the following samples due to insufficient sample available for re-analysis: AX11474 MW-10 (400-138232-18), AX11474 MW-10 (400-138232-18[DUJ]), AX11475 MW-14 (400-138232-19), AX11477 PZ-5 (400-138232-21), AX11481 MW-9D (400-138232-25), AX11482 MW-9S (400-138232-26), AX11483 MW-13S (400-138232-27), AX11484 MW-13D (400-138232-28), AX11485 FB-2 (400-138232-29) and (MB 160-313689/1-A). Analytical results are reported with the detection limit achieved.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-311509. The following samples were reduced due to limited volume: AX11348 MW-12 (400-138232-1), AX11349 MW-3D (400-138232-2), AX11350 MW-3S (400-138232-3), AX11351 MW-4 (400-138232-4), AX11352 MW-4 DUP (400-138232-5), AX11353 MW-6 (400-138232-6), AX11354 MW-6 DUP (400-138232-7), AX11355 MW-7S (400-138232-8), AX11355 MW-7S (400-138232-8[DUJ]), AX11356 MW-7D (400-138232-9), AX11357 MW-8S (400-138232-10), AX11358 FB-1 (400-138232-11), AX11359 MW-1 (400-138232-12), AX11360 MW-11 (400-138232-13), AX11361 MW-2 (400-138232-14), AX11362 MW-15 (400-138232-15), AX11363 MW-16 (400-138232-16) and AX11364 MW-16 DUP (400-138232-17).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-311527. The following samples were reduced due to limited volume: AX11474 MW-10 (400-138232-18), AX11474 MW-10 (400-138232-18[DUJ]), AX11475 MW-14 (400-138232-19), AX11476 FB-3 (400-138232-20), AX11477 PZ-5 (400-138232-21), AX11478 EB-1 (400-138232-22), AX11479 MW-5 (400-138232-23), AX11480 MW-8D (400-138232-24), AX11481 MW-9D (400-138232-25), AX11482 MW-9S (400-138232-26), AX11483 MW-13S (400-138232-27), AX11484 MW-13D (400-138232-28) and AX11485 FB-2 (400-138232-29).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-313689. The following samples were reduced and consumed due to re-analysis: AX11474 MW-10 (400-138232-18), AX11474 MW-10 (400-138232-18[DUJ]), AX11475 MW-14 (400-138232-19), AX11476 FB-3 (400-138232-20), AX11477 PZ-5 (400-138232-21), AX11478 EB-1 (400-138232-22), AX11479 MW-5 (400-138232-23), AX11480 MW-8D (400-138232-24), AX11481 MW-9D (400-138232-25), AX11482 MW-9S (400-138232-26), AX11483 MW-13S (400-138232-27), AX11484 MW-13D (400-138232-28) and AX11485 FB-2 (400-138232-29).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-311385. The following samples were reduced due to limited volume: AX11348 MW-12 (400-138232-1), AX11349 MW-3D (400-138232-2), AX11350 MW-3S (400-138232-3), AX11351 MW-4 (400-138232-4), AX11352 MW-4 DUP (400-138232-5), AX11353 MW-6 (400-138232-6), AX11354 MW-6 DUP (400-138232-7), AX11355 MW-7S (400-138232-8), AX11355 MW-7S (400-138232-8[DUJ]), AX11356 MW-7D (400-138232-9), AX11357 MW-8S (400-138232-10), AX11358 FB-1 (400-138232-11), AX11359 MW-1 (400-138232-12), AX11360 MW-11 (400-138232-13), AX11361 MW-2 (400-138232-14), AX11362 MW-15 (400-138232-15), AX11363 MW-16 (400-138232-16) and AX11364 MW-16 DUP (400-138232-17).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-311386. The following samples were reduced due to limited volume: AX11474 MW-10 (400-138232-18), AX11474 MW-10 (400-138232-18[DUJ]), AX11475 MW-14 (400-138232-19), AX11476 FB-3 (400-138232-20), AX11477 PZ-5 (400-138232-21), AX11478 EB-1 (400-138232-22), AX11479 MW-5 (400-138232-23), AX11480 MW-8D (400-138232-24), AX11481 MW-9D (400-138232-25), AX11482 MW-9S (400-138232-26), AX11483 MW-13S (400-138232-27), AX11484 MW-13D (400-138232-28) and AX11485 FB-2 (400-138232-29).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-313664. The following samples were reduced and consumed due to re-analysis: AX11474 MW-10 (400-138232-18), AX11474 MW-10 (400-138232-18[DUJ]), AX11475 MW-14 (400-138232-19), AX11476 FB-3 (400-138232-20), AX11477 PZ-5 (400-138232-21), AX11478 EB-1 (400-138232-22), AX11479 MW-5 (400-138232-23), AX11480 MW-8D (400-138232-24), AX11481 MW-9D (400-138232-25), AX11482 MW-9S (400-138232-26), AX11483 MW-13S (400-138232-27), AX11484 MW-13D (400-138232-28) and AX11485 FB-2 (400-138232-29).

Method Summary

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

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 Miller

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-138232-1	AX11348 MW-12	Water	05/15/17 15:22	05/22/17 08:48
400-138232-2	AX11349 MW-3D	Water	05/16/17 09:01	05/22/17 08:48
400-138232-3	AX11350 MW-3S	Water	05/16/17 10:20	05/22/17 08:48
400-138232-4	AX11351 MW-4	Water	05/16/17 11:25	05/22/17 08:48
400-138232-5	AX11352 MW-4 DUP	Water	05/16/17 11:25	05/22/17 08:48
400-138232-6	AX11353 MW-6	Water	05/16/17 13:00	05/22/17 08:48
400-138232-7	AX11354 MW-6 DUP	Water	05/16/17 13:00	05/22/17 08:48
400-138232-8	AX11355 MW-7S	Water	05/16/17 14:00	05/22/17 08:48
400-138232-9	AX11356 MW-7D	Water	05/16/17 15:06	05/22/17 08:48
400-138232-10	AX11357 MW-8S	Water	05/16/17 16:09	05/22/17 08:48
400-138232-11	AX11358 FB-1	Water	05/16/17 16:35	05/22/17 08:48
400-138232-12	AX11359 MW-1	Water	05/15/17 16:48	05/22/17 08:48
400-138232-13	AX11360 MW-11	Water	05/16/17 10:40	05/22/17 08:48
400-138232-14	AX11361 MW-2	Water	05/16/17 13:46	05/22/17 08:48
400-138232-15	AX11362 MW-15	Water	05/16/17 15:43	05/22/17 08:48
400-138232-16	AX11363 MW-16	Water	05/16/17 16:59	05/22/17 08:48
400-138232-17	AX11364 MW-16 DUP	Water	05/16/17 16:59	05/22/17 08:48
400-138232-18	AX11474 MW-10	Water	05/17/17 09:20	05/22/17 08:48
400-138232-19	AX11475 MW-14	Water	05/17/17 11:18	05/22/17 08:48
400-138232-20	AX11476 FB-3	Water	05/17/17 11:40	05/22/17 08:48
400-138232-21	AX11477 PZ-5	Water	05/17/17 14:12	05/22/17 08:48
400-138232-22	AX11478 EB-1	Water	05/17/17 14:55	05/22/17 08:48
400-138232-23	AX11479 MW-5	Water	05/17/17 16:00	05/22/17 08:48
400-138232-24	AX11480 MW-8D	Water	05/17/17 08:50	05/22/17 08:48
400-138232-25	AX11481 MW-9D	Water	05/17/17 10:05	05/22/17 08:48
400-138232-26	AX11482 MW-9S	Water	05/17/17 11:38	05/22/17 08:48
400-138232-27	AX11483 MW-13S	Water	05/17/17 13:06	05/22/17 08:48
400-138232-28	AX11484 MW-13D	Water	05/17/17 14:18	05/22/17 08:48
400-138232-29	AX11485 FB-2	Water	05/17/17 14:55	05/22/17 08:48

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11348 MW-12

Lab Sample ID: 400-138232-1

Date Collected: 05/15/17 15:22

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0662	U	0.0839	0.0842	1.00	0.139	pCi/L	05/31/17 15:02	06/23/17 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					05/31/17 15:02	06/23/17 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	0.316	U	0.312	0.313	1.00	0.507	pCi/L	06/01/17 09:30	06/14/17 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					06/01/17 09:30	06/14/17 10:48	1
Y Carrier	92.3		40 - 110					06/01/17 09:30	06/14/17 10:48	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	0.382	U	0.323	0.324	5.00	0.507	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11349 MW-3D

Lab Sample ID: 400-138232-2

Date Collected: 05/16/17 09:01

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0566	U	0.0813	0.0814	1.00	0.138	pCi/L	05/31/17 15:02	06/23/17 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/31/17 15:02	06/23/17 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	0.0806	U	0.270	0.270	1.00	0.470	pCi/L	06/01/17 09:30	06/14/17 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/01/17 09:30	06/14/17 10:48	1
Y Carrier	88.6		40 - 110					06/01/17 09:30	06/14/17 10:48	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	0.137	U	0.282	0.282	5.00	0.470	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11350 MW-3S

Lab Sample ID: 400-138232-3

Date Collected: 05/16/17 10:20

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.0860	0.0866	1.00	0.121	pCi/L	05/31/17 15:02	06/23/17 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					05/31/17 15:02	06/23/17 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	0.189	U	0.256	0.256	1.00	0.427	pCi/L	06/01/17 09:30	06/14/17 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/01/17 09:30	06/14/17 10:48	1
Y Carrier	90.8		40 - 110					06/01/17 09:30	06/14/17 10:48	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	0.303	U	0.270	0.271	5.00	0.427	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11351 MW-4

Lab Sample ID: 400-138232-4

Date Collected: 05/16/17 11:25

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0436	U	0.0688	0.0689	1.00	0.119	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					05/31/17 15:02	06/23/17 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	0.203	U	0.257	0.258	1.00	0.427	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	89.7		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.247	U	0.266	0.267	5.00	0.427	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11352 MW-4 DUP

Lab Sample ID: 400-138232-5

Date Collected: 05/16/17 11:25

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0588	U	0.0695	0.0697	1.00	0.113	pCi/L	05/31/17 15:02	06/23/17 06:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					05/31/17 15:02	06/23/17 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	0.556		0.267	0.272	1.00	0.382	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	92.7		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.615		0.276	0.280	5.00	0.382	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11353 MW-6

Lab Sample ID: 400-138232-6

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

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	0.0773	0.0773	1.00	0.138	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					05/31/17 15:02	06/23/17 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	0.0354	U	0.257	0.257	1.00	0.455	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	92.7		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.0754	U	0.269	0.269	5.00	0.455	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11354 MW-6 DUP

Lab Sample ID: 400-138232-7

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0173	U	0.0694	0.0694	1.00	0.149	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					05/31/17 15:02	06/23/17 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	-0.0857	U	0.262	0.262	1.00	0.482	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	89.3		40 - 110					06/01/17 09:30	06/14/17 10:49	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	-0.103	U	0.271	0.271	5.00	0.482	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11355 MW-7S

Lab Sample ID: 400-138232-8

Date Collected: 05/16/17 14:00

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0621	U	0.0773	0.0775	1.00	0.127	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					05/31/17 15:02	06/23/17 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	0.115	U	0.258	0.259	1.00	0.445	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	89.3		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.177	U	0.270	0.270	5.00	0.445	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11356 MW-7D

Lab Sample ID: 400-138232-9

Date Collected: 05/16/17 15:06

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0793	U	0.0808	0.0811	1.00	0.126	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/31/17 15:02	06/23/17 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	0.546		0.304	0.308	1.00	0.453	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	89.3		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.625		0.314	0.318	5.00	0.453	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11357 MW-8S

Lab Sample ID: 400-138232-10

Date Collected: 05/16/17 16:09

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0627	U	0.0760	0.0763	1.00	0.125	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/31/17 15:02	06/23/17 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	0.150	U	0.243	0.244	1.00	0.413	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	88.6		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.213	U	0.255	0.255	5.00	0.413	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11358 FB-1

Lab Sample ID: 400-138232-11

Date Collected: 05/16/17 16:35

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00363	U	0.0570	0.0570	1.00	0.119	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					05/31/17 15:02	06/23/17 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	0.245	U	0.270	0.271	1.00	0.442	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	84.5		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.248	U	0.276	0.277	5.00	0.442	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11359 MW-1

Lab Sample ID: 400-138232-12

Date Collected: 05/15/17 16:48

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.0966	0.0972	1.00	0.144	pCi/L	05/31/17 15:02	06/23/17 06:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					05/31/17 15:02	06/23/17 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	0.293	U	0.299	0.301	1.00	0.488	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	91.2		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.409	U	0.315	0.316	5.00	0.488	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11360 MW-11

Lab Sample ID: 400-138232-13

Date Collected: 05/16/17 10:40

Matrix: Water

Date Received: 05/22/17 08:48

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	U	0.0812	0.0818	1.00	0.112	pCi/L	05/31/17 15:02	06/23/17 06:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					05/31/17 15:02	06/23/17 06:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0106	U	0.246	0.246	1.00	0.442	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	83.4		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.119	U	0.259	0.259	5.00	0.442	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11361 MW-2

Lab Sample ID: 400-138232-14

Date Collected: 05/16/17 13:46

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0879	U	0.0781	0.0785	1.00	0.114	pCi/L	05/31/17 15:02	06/23/17 06:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					05/31/17 15:02	06/23/17 06:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.282	U	0.295	0.296	1.00	0.482	pCi/L	06/01/17 09:30	06/14/17 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					06/01/17 09:30	06/14/17 10:49	1
Y Carrier	84.5		40 - 110					06/01/17 09:30	06/14/17 10:49	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	0.370	U	0.305	0.307	5.00	0.482	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11362 MW-15

Lab Sample ID: 400-138232-15

Date Collected: 05/16/17 15:43

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.169		0.0977	0.0989	1.00	0.119	pCi/L	05/31/17 15:02	06/23/17 06:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					05/31/17 15:02	06/23/17 06:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0622	U	0.238	0.238	1.00	0.417	pCi/L	06/01/17 09:30	06/14/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/01/17 09:30	06/14/17 10:50	1
Y Carrier	87.5		40 - 110					06/01/17 09:30	06/14/17 10:50	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	0.232	U	0.257	0.257	5.00	0.417	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11363 MW-16

Lab Sample ID: 400-138232-16

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166		0.0974	0.0986	1.00	0.122	pCi/L	05/31/17 15:02	06/23/17 06:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					05/31/17 15:02	06/23/17 06:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0628	U	0.252	0.252	1.00	0.445	pCi/L	06/01/17 09:30	06/14/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					06/01/17 09:30	06/14/17 10:50	1
Y Carrier	82.6		40 - 110					06/01/17 09:30	06/14/17 10:50	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	0.229	U	0.271	0.271	5.00	0.445	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11364 MW-16 DUP

Lab Sample ID: 400-138232-17

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.226		0.107	0.109	1.00	0.116	pCi/L	05/31/17 15:02	06/23/17 06:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					05/31/17 15:02	06/23/17 06:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.343	U	0.300	0.302	1.00	0.481	pCi/L	06/01/17 09:30	06/14/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/01/17 09:30	06/14/17 10:50	1
Y Carrier	84.1		40 - 110					06/01/17 09:30	06/14/17 10:50	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	0.569		0.319	0.321	5.00	0.481	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11474 MW-10

Lab Sample ID: 400-138232-18

Date Collected: 05/17/17 09:20

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170		0.0904	0.0917	1.00	0.102	pCi/L	05/31/17 15:03	06/23/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					05/31/17 15:03	06/23/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.667	U G	0.678	0.680	1.00	1.29	pCi/L	06/16/17 07:19	06/21/17 14:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					06/16/17 07:19	06/21/17 14:25	1
Y Carrier	88.2		40 - 110					06/16/17 07:19	06/21/17 14:25	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	-0.497	U	0.684	0.686	5.00	1.29	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11475 MW-14

Lab Sample ID: 400-138232-19

Date Collected: 05/17/17 11:18

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108		0.0770	0.0776	1.00	0.0927	pCi/L	05/31/17 15:03	06/23/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					05/31/17 15:03	06/23/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U G	0.637	0.637	1.00	1.10	pCi/L	06/16/17 07:19	06/21/17 14:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					06/16/17 07:19	06/21/17 14:24	1
Y Carrier	88.6		40 - 110					06/16/17 07:19	06/21/17 14:24	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	0.359	U	0.641	0.642	5.00	1.10	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11476 FB-3

Lab Sample ID: 400-138232-20

Date Collected: 05/17/17 11:40

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00693	U	0.0403	0.0403	1.00	0.0872	pCi/L	05/31/17 15:03	06/23/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					05/31/17 15:03	06/23/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.303	U	0.504	0.505	1.00	0.964	pCi/L	06/16/17 07:19	06/21/17 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/16/17 07:19	06/21/17 14:23	1
Y Carrier	91.2		40 - 110					06/16/17 07:19	06/21/17 14:23	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	-0.296	U	0.506	0.506	5.00	0.964	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11477 PZ-5

Lab Sample ID: 400-138232-21

Date Collected: 05/17/17 14:12

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.159		0.0908	0.0919	1.00	0.0925	pCi/L	05/31/17 15:03	06/23/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					05/31/17 15:03	06/23/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.411	U G	0.654	0.655	1.00	1.10	pCi/L	06/16/17 07:19	06/21/17 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					06/16/17 07:19	06/21/17 14:23	1
Y Carrier	89.0		40 - 110					06/16/17 07:19	06/21/17 14:23	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	0.569	U	0.661	0.662	5.00	1.10	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11478 EB-1

Lab Sample ID: 400-138232-22

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00195	U	0.0288	0.0288	1.00	0.0743	pCi/L	05/31/17 15:03	06/23/17 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					05/31/17 15:03	06/23/17 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.264	U	0.507	0.508	1.00	0.960	pCi/L	06/16/17 07:19	06/21/17 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/16/17 07:19	06/21/17 14:23	1
Y Carrier	92.7		40 - 110					06/16/17 07:19	06/21/17 14:23	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	-0.262	U	0.508	0.508	5.00	0.960	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11479 MW-5

Lab Sample ID: 400-138232-23

Date Collected: 05/17/17 16:00

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0636	U	0.0560	0.0563	1.00	0.0738	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.357	U	0.524	0.525	1.00	0.881	pCi/L	06/16/17 07:19	06/21/17 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					06/16/17 07:19	06/21/17 14:23	1
Y Carrier	92.0		40 - 110					06/16/17 07:19	06/21/17 14:23	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	0.421	U	0.527	0.528	5.00	0.881	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11480 MW-8D

Lab Sample ID: 400-138232-24

Date Collected: 05/17/17 08:50

Matrix: Water

Date Received: 05/22/17 08:48

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		0.0851	0.0860	1.00	0.104	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.661	U	0.574	0.577	1.00	0.916	pCi/L	06/16/17 07:19	06/21/17 14:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					06/16/17 07:19	06/21/17 14:23	1
Y Carrier	90.5		40 - 110					06/16/17 07:19	06/21/17 14:23	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	0.798	U	0.580	0.584	5.00	0.916	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11481 MW-9D

Lab Sample ID: 400-138232-25

Date Collected: 05/17/17 10:05

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.115		0.0749	0.0756	1.00	0.0903	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.365	U G	0.683	0.684	1.00	1.25	pCi/L	06/16/17 07:19	06/21/17 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/17 07:19	06/21/17 14:33	1
Y Carrier	91.6		40 - 110					06/16/17 07:19	06/21/17 14:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.250	U	0.688	0.688	5.00	1.25	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11482 MW-9S

Lab Sample ID: 400-138232-26

Date Collected: 05/17/17 11:38

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.204		0.113	0.114	1.00	0.146	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.577	U G	0.644	0.646	1.00	1.06	pCi/L	06/16/17 07:19	06/21/17 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					06/16/17 07:19	06/21/17 14:33	1
Y Carrier	87.1		40 - 110					06/16/17 07:19	06/21/17 14:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.781	U	0.654	0.656	5.00	1.06	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11483 MW-13S

Lab Sample ID: 400-138232-27

Date Collected: 05/17/17 13:06

Matrix: Water

Date Received: 05/22/17 08:48

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		0.0915	0.0924	1.00	0.113	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.392	U G	0.623	0.624	1.00	1.16	pCi/L	06/16/17 07:19	06/21/17 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/16/17 07:19	06/21/17 14:33	1
Y Carrier	91.6		40 - 110					06/16/17 07:19	06/21/17 14:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.250	U	0.630	0.631	5.00	1.16	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11484 MW-13D

Lab Sample ID: 400-138232-28

Date Collected: 05/17/17 14:18

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.145		0.0880	0.0889	1.00	0.101	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.410	U G	0.707	0.708	1.00	1.19	pCi/L	06/16/17 07:19	06/21/17 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					06/16/17 07:19	06/21/17 14:34	1
Y Carrier	93.8		40 - 110					06/16/17 07:19	06/21/17 14:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.555	U	0.712	0.713	5.00	1.19	pCi/L		06/23/17 12:14	1

Client Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11485 FB-2

Lab Sample ID: 400-138232-29

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0720	U	0.0651	0.0654	1.00	0.0901	pCi/L	05/31/17 15:03	06/23/17 06:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					05/31/17 15:03	06/23/17 06:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.000	U G	0.574	0.574	1.00	1.02	pCi/L	06/16/17 07:19	06/21/17 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	110		40 - 110					06/16/17 07:19	06/21/17 14:34	1
Y Carrier	90.1		40 - 110					06/16/17 07:19	06/21/17 14:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0720	U	0.578	0.578	5.00	1.02	pCi/L		06/23/17 12:14	1

Definitions/Glossary

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

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 Miller

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11348 MW-12

Lab Sample ID: 400-138232-1

Date Collected: 05/15/17 15:22

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:11	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11349 MW-3D

Lab Sample ID: 400-138232-2

Date Collected: 05/16/17 09:01

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:11	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11350 MW-3S

Lab Sample ID: 400-138232-3

Date Collected: 05/16/17 10:20

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:11	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11351 MW-4

Lab Sample ID: 400-138232-4

Date Collected: 05/16/17 11:25

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11352 MW-4 DUP

Lab Sample ID: 400-138232-5

Date Collected: 05/16/17 11:25

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:11	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11353 MW-6

Lab Sample ID: 400-138232-6

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11354 MW-6 DUP

Lab Sample ID: 400-138232-7

Date Collected: 05/16/17 13:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11355 MW-7S

Lab Sample ID: 400-138232-8

Date Collected: 05/16/17 14:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11356 MW-7D

Lab Sample ID: 400-138232-9

Date Collected: 05/16/17 15:06

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11357 MW-8S

Lab Sample ID: 400-138232-10

Date Collected: 05/16/17 16:09

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11358 FB-1

Lab Sample ID: 400-138232-11

Date Collected: 05/16/17 16:35

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11359 MW-1

Lab Sample ID: 400-138232-12

Date Collected: 05/15/17 16:48

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314986	06/23/17 06:12	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11360 MW-11

Lab Sample ID: 400-138232-13

Date Collected: 05/16/17 10:40

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:17	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11361 MW-2

Lab Sample ID: 400-138232-14

Date Collected: 05/16/17 13:46

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:17	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313281	06/14/17 10:49	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11362 MW-15

Lab Sample ID: 400-138232-15

Date Collected: 05/16/17 15:43

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:17	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313350	06/14/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11363 MW-16

Lab Sample ID: 400-138232-16

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:17	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313350	06/14/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Client Sample ID: AX11364 MW-16 DUP

Lab Sample ID: 400-138232-17

Date Collected: 05/16/17 16:59

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311385	05/31/17 15:02	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:17	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311509	06/01/17 09:30	LDE	TAL SL
Total/NA	Analysis	9320		1	313350	06/14/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11474 MW-10

Lab Sample ID: 400-138232-18

Date Collected: 05/17/17 09:20

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 05:59	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11475 MW-14

Lab Sample ID: 400-138232-19

Date Collected: 05/17/17 11:18

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 05:59	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11476 FB-3

Lab Sample ID: 400-138232-20

Date Collected: 05/17/17 11:40

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 05:59	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11477 PZ-5

Lab Sample ID: 400-138232-21

Date Collected: 05/17/17 14:12

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 05:59	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11478 EB-1

Lab Sample ID: 400-138232-22

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 05:59	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11479 MW-5

Lab Sample ID: 400-138232-23

Date Collected: 05/17/17 16:00

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11480 MW-8D

Lab Sample ID: 400-138232-24

Date Collected: 05/17/17 08:50

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314409	06/21/17 14:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11481 MW-9D

Lab Sample ID: 400-138232-25

Date Collected: 05/17/17 10:05

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314401	06/21/17 14:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11482 MW-9S

Lab Sample ID: 400-138232-26

Date Collected: 05/17/17 11:38

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314401	06/21/17 14:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11483 MW-13S

Lab Sample ID: 400-138232-27

Date Collected: 05/17/17 13:06

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314401	06/21/17 14:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Client Sample ID: AX11484 MW-13D

Lab Sample ID: 400-138232-28

Date Collected: 05/17/17 14:18

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314401	06/21/17 14:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Client Sample ID: AX11485 FB-2

Lab Sample ID: 400-138232-29

Date Collected: 05/17/17 14:55

Matrix: Water

Date Received: 05/22/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311386	05/31/17 15:03	MBC	TAL SL
Total/NA	Analysis	9315		1	314987	06/23/17 06:00	ALD	TAL SL
Total/NA	Prep	PrecSep_0			313689	06/16/17 07:19	LDE	TAL SL
Total/NA	Analysis	9320		1	314401	06/21/17 14:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315025	06/23/17 12:14	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 Miller

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Rad

Prep Batch: 311385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138232-1	AX11348 MW-12	Total/NA	Water	PrecSep-21	
400-138232-2	AX11349 MW-3D	Total/NA	Water	PrecSep-21	
400-138232-3	AX11350 MW-3S	Total/NA	Water	PrecSep-21	
400-138232-4	AX11351 MW-4	Total/NA	Water	PrecSep-21	
400-138232-5	AX11352 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-138232-6	AX11353 MW-6	Total/NA	Water	PrecSep-21	
400-138232-7	AX11354 MW-6 DUP	Total/NA	Water	PrecSep-21	
400-138232-8	AX11355 MW-7S	Total/NA	Water	PrecSep-21	
400-138232-9	AX11356 MW-7D	Total/NA	Water	PrecSep-21	
400-138232-10	AX11357 MW-8S	Total/NA	Water	PrecSep-21	
400-138232-11	AX11358 FB-1	Total/NA	Water	PrecSep-21	
400-138232-12	AX11359 MW-1	Total/NA	Water	PrecSep-21	
400-138232-13	AX11360 MW-11	Total/NA	Water	PrecSep-21	
400-138232-14	AX11361 MW-2	Total/NA	Water	PrecSep-21	
400-138232-15	AX11362 MW-15	Total/NA	Water	PrecSep-21	
400-138232-16	AX11363 MW-16	Total/NA	Water	PrecSep-21	
400-138232-17	AX11364 MW-16 DUP	Total/NA	Water	PrecSep-21	
MB 160-311385/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-311385/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-138232-8 DU	AX11355 MW-7S	Total/NA	Water	PrecSep-21	

Prep Batch: 311386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138232-18	AX11474 MW-10	Total/NA	Water	PrecSep-21	
400-138232-19	AX11475 MW-14	Total/NA	Water	PrecSep-21	
400-138232-20	AX11476 FB-3	Total/NA	Water	PrecSep-21	
400-138232-21	AX11477 PZ-5	Total/NA	Water	PrecSep-21	
400-138232-22	AX11478 EB-1	Total/NA	Water	PrecSep-21	
400-138232-23	AX11479 MW-5	Total/NA	Water	PrecSep-21	
400-138232-24	AX11480 MW-8D	Total/NA	Water	PrecSep-21	
400-138232-25	AX11481 MW-9D	Total/NA	Water	PrecSep-21	
400-138232-26	AX11482 MW-9S	Total/NA	Water	PrecSep-21	
400-138232-27	AX11483 MW-13S	Total/NA	Water	PrecSep-21	
400-138232-28	AX11484 MW-13D	Total/NA	Water	PrecSep-21	
400-138232-29	AX11485 FB-2	Total/NA	Water	PrecSep-21	
MB 160-311386/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-311386/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-138232-18 DU	AX11474 MW-10	Total/NA	Water	PrecSep-21	

Prep Batch: 311509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138232-1	AX11348 MW-12	Total/NA	Water	PrecSep_0	
400-138232-2	AX11349 MW-3D	Total/NA	Water	PrecSep_0	
400-138232-3	AX11350 MW-3S	Total/NA	Water	PrecSep_0	
400-138232-4	AX11351 MW-4	Total/NA	Water	PrecSep_0	
400-138232-5	AX11352 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-138232-6	AX11353 MW-6	Total/NA	Water	PrecSep_0	
400-138232-7	AX11354 MW-6 DUP	Total/NA	Water	PrecSep_0	
400-138232-8	AX11355 MW-7S	Total/NA	Water	PrecSep_0	
400-138232-9	AX11356 MW-7D	Total/NA	Water	PrecSep_0	
400-138232-10	AX11357 MW-8S	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

Rad (Continued)

Prep Batch: 311509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138232-11	AX11358 FB-1	Total/NA	Water	PrecSep_0	
400-138232-12	AX11359 MW-1	Total/NA	Water	PrecSep_0	
400-138232-13	AX11360 MW-11	Total/NA	Water	PrecSep_0	
400-138232-14	AX11361 MW-2	Total/NA	Water	PrecSep_0	
400-138232-15	AX11362 MW-15	Total/NA	Water	PrecSep_0	
400-138232-16	AX11363 MW-16	Total/NA	Water	PrecSep_0	
400-138232-17	AX11364 MW-16 DUP	Total/NA	Water	PrecSep_0	
MB 160-311509/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-311509/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-138232-8 DU	AX11355 MW-7S	Total/NA	Water	PrecSep_0	

Prep Batch: 313689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138232-18	AX11474 MW-10	Total/NA	Water	PrecSep_0	
400-138232-19	AX11475 MW-14	Total/NA	Water	PrecSep_0	
400-138232-20	AX11476 FB-3	Total/NA	Water	PrecSep_0	
400-138232-21	AX11477 PZ-5	Total/NA	Water	PrecSep_0	
400-138232-22	AX11478 EB-1	Total/NA	Water	PrecSep_0	
400-138232-23	AX11479 MW-5	Total/NA	Water	PrecSep_0	
400-138232-24	AX11480 MW-8D	Total/NA	Water	PrecSep_0	
400-138232-25	AX11481 MW-9D	Total/NA	Water	PrecSep_0	
400-138232-26	AX11482 MW-9S	Total/NA	Water	PrecSep_0	
400-138232-27	AX11483 MW-13S	Total/NA	Water	PrecSep_0	
400-138232-28	AX11484 MW-13D	Total/NA	Water	PrecSep_0	
400-138232-29	AX11485 FB-2	Total/NA	Water	PrecSep_0	
MB 160-313689/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-313689/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-138232-18 DU	AX11474 MW-10	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-311385/1-A
Matrix: Water
Analysis Batch: 314986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311385

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04394	U	0.0703	0.0704	1.00	0.122	pCi/L	05/31/17 15:02	06/23/17 06:10	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					05/31/17 15:02	06/23/17 06:10	1

Lab Sample ID: LCS 160-311385/2-A
Matrix: Water
Analysis Batch: 314986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311385

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	15.1	11.21		1.19	1.00	0.138	pCi/L	74	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	101		40 - 110						

Lab Sample ID: 400-138232-8 DU
Matrix: Water
Analysis Batch: 314986

Client Sample ID: AX11355 MW-7S
Prep Type: Total/NA
Prep Batch: 311385

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0621	U	0.03214	U	0.0649	1.00	0.118	pCi/L	0.21	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	93.5		40 - 110							

Lab Sample ID: MB 160-311386/1-A
Matrix: Water
Analysis Batch: 314987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311386

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.05268	U	0.0490	0.0492	1.00	0.132	pCi/L	05/31/17 15:03	06/23/17 05:58	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					05/31/17 15:03	06/23/17 05:58	1

Lab Sample ID: LCS 160-311386/2-A
Matrix: Water
Analysis Batch: 314987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311386

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	15.1	13.54		1.40	1.00	0.0875	pCi/L	89	68 - 137

QC Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-311386/2-A
Matrix: Water
Analysis Batch: 314987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311386

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	106		40 - 110

Lab Sample ID: 400-138232-18 DU
Matrix: Water
Analysis Batch: 314987

Client Sample ID: AX11474 MW-10
Prep Type: Total/NA
Prep Batch: 311386

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.170		0.2372		0.101	1.00	0.0891	pCi/L	0.35	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	102		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-311509/1-A
Matrix: Water
Analysis Batch: 313281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311509

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3803	U	0.287	0.289	1.00	0.452	pCi/L	06/01/17 09:30	06/14/17 10:48	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110	06/01/17 09:30	06/14/17 10:48	1
Y Carrier	89.3		40 - 110	06/01/17 09:30	06/14/17 10:48	1

Lab Sample ID: LCS 160-311509/2-A
Matrix: Water
Analysis Batch: 313281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311509

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	17.7	19.73		2.09	1.00	0.456	pCi/L	111	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 400-138232-8 DU
Matrix: Water
Analysis Batch: 313281

Client Sample ID: AX11355 MW-7S
Prep Type: Total/NA
Prep Batch: 311509

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.115	U	0.007822	U	0.254	1.00	0.455	pCi/L	0.21	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-138232-8 DU
Matrix: Water
Analysis Batch: 313281

Client Sample ID: AX11355 MW-7S
Prep Type: Total/NA
Prep Batch: 311509

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.5		40 - 110
Y Carrier	90.5		40 - 110

Lab Sample ID: MB 160-313689/1-A
Matrix: Water
Analysis Batch: 314392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313689

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3009	U G	0.671	0.671	1.00	1.16	pCi/L	06/16/17 07:19	06/21/17 14:25	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110	06/16/17 07:19	06/21/17 14:25	1
Y Carrier	89.7		40 - 110	06/16/17 07:19	06/21/17 14:25	1

Lab Sample ID: LCS 160-313689/2-A
Matrix: Water
Analysis Batch: 314392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313689

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	53.1	51.29		5.49	1.00	1.14	pCi/L	97	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	106		40 - 110
Y Carrier	90.1		40 - 110

Lab Sample ID: 400-138232-18 DU
Matrix: Water
Analysis Batch: 314409

Client Sample ID: AX11474 MW-10
Prep Type: Total/NA
Prep Batch: 313689

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.667	U G	-0.01104	U G	0.620	1.00	1.10	pCi/L	0.50	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	92.7		40 - 110

QC Sample Results

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

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-138232-8 DU
Matrix: Water
Analysis Batch: 315025

Client Sample ID: AX11355 MW-7S
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	0.177	U	0.03996	U	0.262	5.00	0.455	pCi/L	0.26	

Lab Sample ID: 400-138232-18 DU
Matrix: Water
Analysis Batch: 315025

Client Sample ID: AX11474 MW-10
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	-0.497	U	0.2261	U	0.628	5.00	1.10	pCi/L	0.55	



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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM Whitmore, Cheryenne R		COC No. 400-56525-24537.1	
Sampler: Ben Rothschild		E-Mail: cheryenne.whitmore@testamericainc.com		Page Page 1 of 3	
Client Contact: Sarah Copeland		Address: Alabama Power General Test Laboratory 744 County Rd 87 GSC #8 Callera State, Zip AL, 35040		Job # 400-138232	
Company: Alabama Power General Test Laboratory		Due Date Requested: TAT Requested (days): Routine		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water K - EDTA L - EDA Z - other (specify) Other:	
PO #: 205-664-6121(Tel)		Project #: 40007143		Analysis Requested  400-138232 COC	
Email: sgcopela@southernco.com		SSOW#		Total Number of containers	
Project Name: CCR		Site: Miller Ash Pond (7)		Special Instructions/Note:	
Sample Identification		Sample Date		Field Filtered Sample (Yes or No)	
Sample Type (C=Comp, G=grab)		Sample Time		Perform IMS/MSD (Yes or No)	
Matrix (Water, Solid, On-water, Other)		Preservation Code		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
AX11348	G	5/15/17	1522	X	1 MW-12
AX11349	G	5/16/17	0901	X	1 MW-3D
AX11350	G	5/16/17	1020	X	1 MW-3S
AX11351	G	5/16/17	1125	X	1 MW-4
AX11352	G	5/16/17	1125	X	1 MW-4 Dup (Sample Duplicate)
AX11353	G	5/16/17	1300	X	1 MW-6
AX11354	G	5/16/17	1300	X	1 MW-6 Dup (Sample Duplicate)
AX11355	G	5/16/17	1400	X	3 MW-7S
AX11356	G	5/16/17	1506	X	1 MW-7D
AX11357	G	5/16/17	1609	X	1 MW-8S
AX11358	G	5/16/17	1635	X	1 FB-1 (Field Blank)
Possible Hazard Identification		Date: 05/18/2017: 1100		Special Instructions/QC Requirements:	
<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		Date: 05/18/2017: 1100		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 05/18/2017: 1100		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Empty Kit Relinquished by:		Date: 05/18/2017: 1100		Method of Shipment:	
Relinquished by: Sarah Copeland		Date: 05/18/2017: 1100		Received by: 	
Relinquished by:		Date: 05/18/2017: 1100		Received by:	
Relinquished by:		Date: 05/18/2017: 1100		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

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

TestAmerica Pensacola
 3355 McLeMere Drive
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

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: 205-564-6121 (Tel) Email: sgcopela@southernco.com Project Name: CCR Site: Miller Ash Pond (7)		Lab PM: Whitmire, Chyenne R E-Mail: chyenne.whitmire@testamericainc.com Camer Tracking No(s): COC No: 400-56525-24537.1 Page: Page 2 of 3 Job #: 400-138232	
Due Date Requested: TAT Requested (days): PO #: WC #: Project #: SSOV#		Analysis Requested	
Sample Identification Sample ID: AX11359 Sample ID: AX11360 Sample ID: AX11361 Sample ID: AX11362 Sample ID: AX11363 Sample ID: AX11364 Sample ID: AX11474 Sample ID: AX11475 Sample ID: AX11476 Sample ID: AX11477 Sample ID: AX11478 Sample ID: AX11479		Sample Date 5/15/17 5/16/17 5/16/17 5/16/17 5/16/17 5/16/17 5/17/17 5/17/17 5/17/17 5/17/17 5/17/17	
Sample Type (C=comp, G=grab) G G G G G G G G G G		Sample Time 1648 1040 1346 1543 1659 1659 0920 1118 1140 1412 1455 1600	
Matrix (Water, Solid, Other) Water Water Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) X X X X X X Y X X X X	
Perform MS/MSD (Yes or No) 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc D		Total Number of Containers 1 1 1 1 1 1 1 3 1 1 1 1	
Special Instructions/Note: MW-1 MW-11 MW-2 MW-15 MW-16 MW-16 Dup (Sample Duplicate) MW-10 MW-14 FB-3 (Field Blank) PZ-5 EB-1 (Equipment Blank) MW-5		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: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - Ph 4-5 X - other (specify)	
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, III, IV, Other (specify)			
Empty Kit Relinquished by: Relinquished by: Sarah Copeland Relinquished by: Relinquished by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:			
Received by: <i>Sarah Alley</i> Date/Time: 5/22/2017 8:48 Received by: Date/Time:		Received by: Date/Time:	
Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Method of Shipment:	



Chain of Custody Record

Client Information		Lab PM Whitmire, Cheyenne R.		Carrier Tracking No(s)		COC No 400-56525-24537.1	
Client Contact: Sarah Copeland		E-Mail: cheyenne.whitmire@testamericainc.com		Page 3 of 3		Job # 400-138732	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (Specify) Other:	
Address: 744 County Rd 87 GSC #8		TAT Requested (days): Routine		Total Number of containers		Special Instructions/Note:	
City: Callera		PO #		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
State, Zip AL, 35040		W/O #		Sample Date		Sample Time	
Phone: 205-664-6121(Tel)		Project # 40007143		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=water, A=acid)	
Email: sgcopelia@southernco.com		SSOW#		Preservation Code:		Special Instructions/Note:	
Project Name: CCR		Site: Miller Ash Pond (7)		Sample Date		Sample Time	
Site: Miller Ash Pond (7)		Sample Date		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=water, A=acid)	
Sample Identification		Sample Date		Sample Time		Matrix (W=water, S=solid, O=water, A=acid)	
AX11480	5/17/17	G	0850	X	D	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc	1 MW-8D
AX11481	5/17/17	G	1005	X			1 MW-9D
AX11482	5/17/17	G	1138	X			1 MW-9S
AX11483	5/17/17	G	1306	X			1 MW-13S
AX11484	5/17/17	G	1418	X			1 MW-13D
AX11485	5/17/17	G	1455	X			1 FB-2 (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: 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							
Special Instructions/QC Requirements: Empty Kit Relinquished by: _____ Date: _____ Relinquished by: Sarah Copeland Date/Time: 05/18/2017 11:00 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No							
Received by: <i>Sepi Sally</i> Date/Time: 5/22/2017 8:48 Company: TA Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks: _____							



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-138232-1
SDG Number: Miller Ash Pond (7)

Login Number: 138232

List Number: 1

Creator: Siddoway, Benjamin

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	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 Miller

TestAmerica Job ID: 400-138232-1
 SDG: Miller Ash Pond (7)

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	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
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	06-30-17

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	06-30-17 *
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	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17 *
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17 *
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

TestAmerica Job ID: 400-138232-1
SDG: Miller Ash Pond (7)

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
North Dakota	State Program	8	R207	06-30-17 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17 *
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17 *
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola



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

- Field Complete
- Lab Complete

Lab ETA 05/17/2017 08:30

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Ben Rothschild"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological"/>		
Comments	<input type="text" value="Radium Duplicate collected at MW-7S
 Relinquished after hours to shipping lab in secure Building 8, General Services Complex at 1944 on 5/16/17
 Received from shipping lab. There is no temperature preservation requirement for Radium."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	05/15/2017	15:22	1	Groundwater		AX11348
MW-3D	05/16/2017	09:01	1	Groundwater		AX11349
MW-3S	05/16/2017	10:20	1	Groundwater		AX11350
MW-4	05/16/2017	11:25	1	Groundwater		AX11351
MW-4 DUP	05/16/2017	11:25	1	Sample Duplicate		AX11352
MW-6	05/16/2017	13:00	1	Groundwater		AX11353
MW-6 DUP	05/16/2017	13:00	1	Sample Duplicate		AX11354
MW-7S	05/16/2017	14:00	3	Groundwater		AX11355
MW-7D	05/16/2017	15:06	1	Groundwater		AX11356
MW-8S	05/16/2017	16:09	1	Groundwater		AX11357
FB-1	05/16/2017	16:35	1	Field Blank		AX11358

Relinquished By	Received By	Date/Time
		<input type="text" value="05/16/2017 17:54"/>
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o, ou, email=sgcopela@southernco.com, c=US Date: 2017.05.17 11:39:14 -0500'</small>	<input type="text" value="05/17/2017 11:39"/>

SmarTroll ID	<input type="text" value="5151-26193-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20010-2-2"/>	Cooler Temp
		<input type="text" value="NA"/>
		Thermometer ID
		<input type="text" value="NA"/>
		pH Strip ID
		<input type="text" value="5521-28268-20-12"/>



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	Relinquished after hours to shipping lab in secure Building 8, General Services Complex at 1944 on 5/16/17 Received from shipping lab. There is no temperature preservation requirement for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	05/15/2017	16:48	1	Groundwater		AX11359
MW-11	05/16/2017	10:40	1	Groundwater		AX11360
MW-2	05/16/2017	13:46	1	Groundwater		AX11361
MW-15	05/16/2017	15:43	1	Groundwater		AX11362
MW-16	05/16/2017	16:59	1	Groundwater		AX11363
MW-16 Dup	05/16/2017	16:59	1	Sample Duplicate		AX11364

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: 2017.05.17 11:45:14 -05'00'</small>	05/17/2017 11:45

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
		5521-28268-20-12



Chain of Custody

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	Radium duplicate collected for MW-10 There is no temperature preservation requirement for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	05/17/2017	09:20	3	Groundwater		AX11474
MW-14	05/17/2017	11:18	1	Groundwater		AX11475
FB-3	05/17/2017	11:40	1	Field Blank		AX11476
PZ-5	05/17/2017	14:12	1	Groundwater		AX11477
EB-1	05/17/2017	14:55	1	Equipment Blank		AX11478
MW-5	05/17/2017	16:00	1	Groundwater		AX11479

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.05.18 08:54:24 -05'00'</small>	05/18/2017 08:54

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	5521-28268-20-12	



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 05/18/2017 08:30

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Ben Rothschild"/>	Location	<input type="text" value="Miller Ash Pond"/>

Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological"/>
Comments	<input type="text" value="There is no temperature preservation requirement for Radium."/>

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8D	05/17/2017	08:50	1	Groundwater		AX11480
MW-9D	05/17/2017	10:05	1	Groundwater		AX11481
MW-9S	05/17/2017	11:38	1	Groundwater		AX11482
MW-13S	05/17/2017	13:06	1	Groundwater		AX11483
MW-13D	05/17/2017	14:18	1	Groundwater		AX11484
FB-2	05/17/2017	14:55	1	Field Blank		AX11485

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.05.18 08:56:05 -05'00'</small>	05/18/2017 08:56

SmarTroll ID <input type="text" value="5151-26193-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp <input type="text" value="NA"/> Thermometer ID <input type="text" value="NA"/> pH Strip ID <input type="text" value="5521-28268-20-12"/>
Turbidity ID <input type="text" value="3901-20010-2-2"/>	

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

 Alabama Power



Sample Group : WMWMILAP_1105
Project/Site : Miller Ash Pond
Quinton, AL 35130
For : Southern Company Services
42 Inverness Parkway
Birmingham, AL 35242
Attention : Dustin Brooks & Greg Dyer
Released By : Keith Kornegay
fkkorneg@southernco.com
(205) 664-6004

The following data has been reviewed and approved by:

Quality Control:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1105

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

Job Narrative
400-139470-1
General Chemistry

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with analytical batch 359018 was outside control limits: AX13798 MW-11 (400-139470-10). The associated Laboratory Control Sample (LCS) precision met acceptance criteria.

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 359461 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 Cl- E: The matrix spike duplicate (MSD) recoveries for analytical batch 359027 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 method blank for analytical batch 358713 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX13789 PZ-5 (400-139470-1), AX13790 MW-5 (400-139470-2), AX13791 MW-15 (400-139470-3), AX13792 MW-16 (400-139470-4), AX13793 MW-10 (400-139470-5), AX13794 MW-10 DUP (400-139470-6), AX13795 MW-13S (400-139470-7), AX13796 MW-13D (400-139470-8), AX13797 MW-14 (400-139470-9), AX13798 MW-11 (400-139470-10), AX13798 MW-11 (400-139470-10[MS]), AX13798 MW-11 (400-139470-10[MSD]), AX13800 MW-1 (400-139470-12), AX13801 MW-2 (400-139470-13), AX13803 MW-3D (400-139470-15), AX13804 MW-3S (400-139470-16), AX13805 MW-4 (400-139470-17), AX13806 MW-4 DUP (400-139470-18), AX13808 MW-6 (400-139470-20), AX13808 MW-6 (400-139470-20[MS]), AX13808 MW-6 (400-139470-20[MSD]), AX13809 MW-7S (400-139470-21), AX13810 MW-7D (400-139470-22), AX13811 MW-8S (400-139470-23), AX13812 MW-8S DUP (400-139470-24), AX13813 MW-8D (400-139470-25), AX13814 MW-9D (400-139470-26), AX13815 MW-9S (400-139470-27), AX13817 MW-12 (400-139470-29), AX13817 MW-12 (400-139470-29[MS]) and AX13817 MW-12 (400-139470-29[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 359056 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.



Metals ICP

Miller Ash Pond

WMWMILAP_1105

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>
AX13789	20170623_20170626A	WMWMILAP_1105
AX13790	20170623_20170626A	WMWMILAP_1105
AX13791	20170623_20170626A	WMWMILAP_1105
AX13792	20170623_20170626A	WMWMILAP_1105
AX13793	20170623_20170626A	WMWMILAP_1105
AX13794	20170623_20170626A	WMWMILAP_1105
AX13795	20170623_20170626A	WMWMILAP_1105
AX13796	20170623_20170626A	WMWMILAP_1105
AX13797	20170623_20170626A	WMWMILAP_1105
AX13798	20170623_20170626A	WMWMILAP_1105
AX13799	20170623A_20170626B	WMWMILAP_1105
AX13800	20170623A_20170626B	WMWMILAP_1105
AX13801	20170623A_20170626B	WMWMILAP_1105
AX13802	20170623A_20170626B	WMWMILAP_1105
AX13803	20170623A_20170626B	WMWMILAP_1105
AX13804	20170623A_20170626B	WMWMILAP_1105
AX13805	20170623A_20170626B	WMWMILAP_1105
AX13806	20170623A_20170626B	WMWMILAP_1105
AX13807	20170623A_20170626B	WMWMILAP_1105
AX13808	20170623A_20170626B	WMWMILAP_1105
AX13809	20170623B_20170626C	WMWMILAP_1105
AX13810	20170623B_20170626C	WMWMILAP_1105
AX13811	20170623B_20170626C	WMWMILAP_1105
AX13812	20170623B_20170626C	WMWMILAP_1105
AX13813	20170623B_20170626C	WMWMILAP_1105
AX13814	20170623B_20170626C	WMWMILAP_1105
AX13815	20170623B_20170626C	WMWMILAP_1105
AX13816	20170623B_20170626C	WMWMILAP_1105
AX13817	20170623B_20170626C	WMWMILAP_1105



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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes. An additional rinse was added between samples for monitoring Li due to possible matrix issues.
- 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, with the following exception:

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AX13798
Calcium	AX13808
Calcium	AX13817

The concentrations of the matrix spike/matrix spike duplicate were 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 dilution to compensate for any matrix effects. The following samples were diluted due to analyzed sample concentration over the high standard of the calibration curve.

Sample ID	Analyte	Dilution Factor
AX13790	Calcium	x10
AX13792	Calcium	x10
AX13793	Calcium	x10
AX13794	Calcium	x10
AX13798	Calcium	x10
AX13798MS	Calcium	x10
AX13798MSD	Calcium	x10
AX13800	Calcium	x10
AX13801	Calcium	x10
AX13803	Calcium	x10
AX13805	Calcium	x10
AX13806	Calcium	x10
AX13808	Calcium	x10
AX13808MS	Calcium	x10
AX13808MSD	Calcium	x10
AX13809	Calcium	x10
AX13810	Calcium	x10
AX13817	Calcium	x10
AX13817MS	Calcium	x10
AX13817MSD	Calcium	x10

8. The raw data results include results corrected for dilution.



Metals ICPMS

Miller Ash Pond

WMWMILAP_1105

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>
AX13789	597417	WMWMILAP_1105
AX13790	597417	WMWMILAP_1105
AX13791	597417	WMWMILAP_1105
AX13792	597417	WMWMILAP_1105
AX13793	597417	WMWMILAP_1105
AX13794	597417	WMWMILAP_1105
AX13795	597417	WMWMILAP_1105
AX13796	597417	WMWMILAP_1105
AX13797	597417	WMWMILAP_1105
AX13798	597417	WMWMILAP_1105
AX13799	597418	WMWMILAP_1105
AX13800	597418	WMWMILAP_1105
AX13801	597418	WMWMILAP_1105
AX13802	597418	WMWMILAP_1105
AX13803	597418	WMWMILAP_1105
AX13804	597418	WMWMILAP_1105
AX13805	597418	WMWMILAP_1105
AX13806	597418	WMWMILAP_1105
AX13807	597418	WMWMILAP_1105
AX13808	597418	WMWMILAP_1105
AX13809	597419	WMWMILAP_1105
AX13810	597419	WMWMILAP_1105
AX13811	597419	WMWMILAP_1105
AX13812	597419	WMWMILAP_1105
AX13813	597419	WMWMILAP_1105
AX13814	597419	WMWMILAP_1105
AX13815	597419	WMWMILAP_1105
AX13816	597419	WMWMILAP_1105
AX13817	597419	WMWMILAP_1105



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

Miller Ash Pond

WMWMILAP_1105

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>
AX13789	597572	WMWMILAP_1105
AX13790	597572	WMWMILAP_1105
AX13791	597572	WMWMILAP_1105
AX13792	597572	WMWMILAP_1105
AX13793	597572	WMWMILAP_1105
AX13794	597572	WMWMILAP_1105
AX13795	597572	WMWMILAP_1105
AX13796	597572	WMWMILAP_1105
AX13797	597572	WMWMILAP_1105
AX13798	597572	WMWMILAP_1105
AX13799	597573	WMWMILAP_1105
AX13800	597573	WMWMILAP_1105
AX13801	597573	WMWMILAP_1105
AX13802	597573	WMWMILAP_1105
AX13803	597573	WMWMILAP_1105
AX13804	597573	WMWMILAP_1105
AX13805	597573	WMWMILAP_1105
AX13806	597573	WMWMILAP_1105
AX13807	597573	WMWMILAP_1105
AX13808	597573	WMWMILAP_1105
AX13809	597574	WMWMILAP_1105
AX13810	597574	WMWMILAP_1105
AX13811	597574	WMWMILAP_1105
AX13812	597574	WMWMILAP_1105
AX13813	597574	WMWMILAP_1105
AX13814	597574	WMWMILAP_1105
AX13815	597574	WMWMILAP_1105
AX13816	597574	WMWMILAP_1105
AX13817	597574	WMWMILAP_1105



4. All of the above samples were analyzed 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

Miller Ash Pond

WMWMILAP_1105

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>
AX13789	597613	WMWMILAP_1105
AX13790	597613	WMWMILAP_1105
AX13791	597613	WMWMILAP_1105
AX13792	597613	WMWMILAP_1105
AX13793	597613	WMWMILAP_1105
AX13794	597613	WMWMILAP_1105
AX13795	597614	WMWMILAP_1105
AX13796	597632	WMWMILAP_1105
AX13797	597632	WMWMILAP_1105
AX13798	597632	WMWMILAP_1105
AX13799	597632	WMWMILAP_1105
AX13800	597632	WMWMILAP_1105
AX13801	597632	WMWMILAP_1105
AX13802	597632	WMWMILAP_1105
AX13803	597614	WMWMILAP_1105
AX13804	597614	WMWMILAP_1105
AX13805	597614	WMWMILAP_1105
AX13806	597614	WMWMILAP_1105
AX13807	597614	WMWMILAP_1105
AX13808	597614	WMWMILAP_1105
AX13809	597614	WMWMILAP_1105
AX13810	597614	WMWMILAP_1105
AX13811	597614	WMWMILAP_1105
AX13812	597632	WMWMILAP_1105
AX13813	597632	WMWMILAP_1105
AX13814	597633	WMWMILAP_1105
AX13815	597864	WMWMILAP_1105
AX13816	597864	WMWMILAP_1105
AX13817	597864	WMWMILAP_1105

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



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 0.5 mg 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 2.5 mg and 200 mg residue with the exception of samples AX13799, AX13802, AX13807 and AX13816 which did not meet the 2.5mg requirement.

Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX13789

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	J 0.00203	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.127	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.418	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	26.3	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	J 0.00107	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.161	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00300	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		100	724	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	34	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	1.1	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		10	14.0	50	B 150	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX13789

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX13789

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX13794	Solids, Dissolved	mg/L	1.00	25				1340	52.0	40 to 60			1.06
													5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX13790

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	0.0118	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0154	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.854	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7		10	1.0	5.0	263	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.237	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0655	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		100	1770	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		2	1.20	4.0	53	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.29	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		30	42.0	150	B 940	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX13790

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX13790

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec		
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit	
AX13794	Solids, Dissolved	mg/L	1.00	25				1340	52.0	40 to 60			1.06	5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX13791

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0800	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.180	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	38.4	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	J 0.0181	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		25	266	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	21	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		10	14.0	50	B 77	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX13791

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX13791

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13794	Solids, Dissolved	mg/L	1.00	25			1340	52.0	40 to 60	1.06	5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX13792

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0242	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	2.81	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7		10	1.0	5.0	146	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	J 0.0429	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0216	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		100	872	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	23	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		30	42.0	150	B 510	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX13792

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX13792

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX13794	Solids, Dissolved	mg/L	1.00	25				1340	52.0	40 to 60			1.06	5

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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX13793

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00218	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0131	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	2.67	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7	10		1.0	5.0	129	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.155	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0719	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			100	1310	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	8.1	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.34	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	30		42.0	150	B 950	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX13793

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			Limit	MB					Limit	Rec	Limit	Prec			
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115		104	70 to 130		1.72	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115		98.7	70 to 130		0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115		108	70 to 130		2.80	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115		95.1	70 to 130		1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115		104	70 to 130		0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046		94.3	70 to 130		0.407	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75		60.0	70 to 130		2.92	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115		92.3	70 to 130		0.287	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15		95.9	70 to 130		5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115		99.5	70 to 130		3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115		91.0	70 to 130		0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115		98.6	70 to 130		0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115		94.3	70 to 130		0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23		104	70 to 130		6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115		96.0	70 to 130		0.179	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX13793

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13794	Solids, Dissolved	mg/L	1.00	25			1340	52.0	40 to 60	1.06	5

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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-10 Dup

Laboratory ID Number: AX13794

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00213	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0132	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	2.72	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7	10		1.0	5.0	131	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.5	J 0.158	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0724	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			100	1310	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	7.4	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.34	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	30		42.0	150	690	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-10 Dup

Laboratory ID Number: AX13794

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	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, 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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-10 Dup

Laboratory ID Number: AX13794

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13794	Solids, Dissolved	mg/L	1.00	25			1340	52.0	40 to 60	1.06	5

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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
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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX13795

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00337	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0195	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	J 0.0938	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	16.2	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0214	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.0789	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			25	331	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	9.1	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	J 0.090	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	10		14.0	50	120	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX13795

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115		104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75		60.0	70 to 130	2.92	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115		92.3	70 to 130	0.287	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115		98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115		108	70 to 130	2.80	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115		95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115		104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046		94.3	70 to 130	0.407	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15		95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115		99.5	70 to 130	3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115		91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115		98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115		94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23		104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115		96.0	70 to 130	0.179	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX13795

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX13811	Solids, Dissolved	mg/L	1.00	25			728	52.0	40 to 60		1.25	5

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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX13796

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00157	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0812	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	J 0.0675	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	49.2	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	J 0.0362	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C	1			33.3333	319	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.13	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	3		4.20	15	79	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX13796

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			MB	Limit					Limit	Rec	Limit	Prec	
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX13796

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60		4.96	5

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX13797

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0671	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.140	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	33.4	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	J 0.0203	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C		1		25	217	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	7.5	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		3	4.20	15	43	mg/L

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Expiration: June 30, 2018

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Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX13797

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX13797

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60		4.96
											5

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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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX13798

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0263	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	J 0.0260	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7	10		1.0	5.0	166	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.118	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C	1			100	1220	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	7.9	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	40		56.0	200	620	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
 The per cent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX13798

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX13798	Calcium, Total	mg/L	-0.0106	0.22	5.00	169	174	4.85	4.25 to 5.75	60.0	70 to 130	2.92	20
AX13798	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.104	0.106	0.0977	0.085 to 0.115	104	70 to 130	1.72	20
AX13798	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0923	0.0926	0.0903	0.085 to 0.115	92.3	70 to 130	0.287	20
AX13798	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0987	0.0987	0.0960	0.085 to 0.115	98.7	70 to 130	0.0415	20
AX13798	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.108	0.105	0.0985	0.085 to 0.115	108	70 to 130	2.80	20
AX13798	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0910	0.0903	0.0943	0.085 to 0.115	91.0	70 to 130	0.737	20
AX13798	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0986	0.0980	0.0978	0.085 to 0.115	98.6	70 to 130	0.608	20
AX13798	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.121	0.120	0.0954	0.085 to 0.115	94.3	70 to 130	0.833	20
AX13798	Lithium, Total	mg/L	-0.0000169	0.022	0.20	0.326	0.349	0.189	0.17 to 0.23	104	70 to 130	6.92	20
AX13798	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0960	0.0958	0.101	0.085 to 0.115	96.0	70 to 130	0.179	20
AX13798	Boron, Total	mg/L	-0.000660	0.044	1.00	0.985	1.04	0.968	0.85 to 1.15	95.9	70 to 130	5.55	20
AX13798	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0995	0.0960	0.102	0.085 to 0.115	99.5	70 to 130	3.56	20
AX13798	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0951	0.0966	0.0976	0.085 to 0.115	95.1	70 to 130	1.54	20
AX13798	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.104	0.105	0.0996	0.085 to 0.115	104	70 to 130	0.972	20
AX13798	Mercury, Total by CVAA	mg/L	0.0000402	0.0005	0.004	0.00377	0.00379	0.00381	0.0034 to 0.0046	94.3	70 to 130	0.407	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

The per cent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX13798

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX13813	Solids, Dissolved	mg/L	4.00	25				698	44.0	40 to 60		4.96	5

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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

The per cent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAPFB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13799

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C	1			25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	1		1.40	5.00	U <1.4	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: WMWMILAPFB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13799

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20	
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20	
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20	
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20	
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20	
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20	
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20	
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20	
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20	
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20	
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20	
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20	
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20	
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20	
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	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: WMWMILAPFB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13799

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60	4.96	5

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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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX13800

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	J 0.00151	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0821	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	J 0.0603	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7		10	1.0	5.0	122	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00558	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.165	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00779	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C		1		50	910	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.15	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		30	42.0	150	450	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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX13800

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	20
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX13800

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60	4.96	5

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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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX13801

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00154	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0160	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	0.159	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7	10		1.0	5.0	241	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0770	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.237	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	J 0.000266	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C	1			100	2520	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	6.0	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	J 0.060	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	60		84.0	300	1700	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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX13801

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	20
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX13801

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60	4.96	5

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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: WMWMILAPEB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX13802

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	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: WMWMILAPEB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX13802

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20	
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20	
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20	
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20	
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20	
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20	
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20	
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20	
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20	
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20	
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20	
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20	
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20	
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20	
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	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: WMWMILAPEB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX13802

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit	Prec	Limit
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60		4.96	5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX13803

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	0.0108	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0246	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.491	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7		10	1	5	232	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00684	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.119	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0226	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		100	1300	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		2	1.20	4.0	57	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.29	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		30	42.0	150	B 710	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX13803

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20	
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20	
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20	
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20	
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20	
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20	
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20	
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20	
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20	
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20	
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20	
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20	
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20	
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20	
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX13803

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX13811	Solids, Dissolved	mg/L	1.00	25				728	52.0	40 to 60			1.25 5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX13804

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	J 0.00180	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0919	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.181	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	4.14	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.188	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0298	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		50	644	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	32	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.26	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		10	14.0	50	B 160	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX13804

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20	
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20	
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20	
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20	
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20	
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20	
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20	
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20	
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20	
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20	
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	20	
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20	
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20	
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20	
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX13804

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX13811	Solids, Dissolved	mg/L	1.00	25			728	52.0	40 to 60			1.25	5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX13805

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0133	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.478	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7		10	1	5	258	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	J 0.000272	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0376	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.0992	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00255	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		100	1380	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		2	1.20	4.0	52	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.27	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		30	42.0	150	B 790	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX13805

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20	
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20	
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20	
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20	
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20	
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20	
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20	
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20	
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	20	
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20	
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20	
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20	
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20	
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20	
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX13805

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
								Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX13811	Solids, Dissolved	mg/L	1.00	25				728	52.0	40 to 60			1.25	5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX13806

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0132	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.483	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7		10	1	5	263	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	J 0.000297	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0387	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.100	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00240	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		100	1360	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		2	1.20	4.0	51	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.27	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		30	42.0	150	B 810	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX13806

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	20
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX13806

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX13811	Solids, Dissolved	mg/L	1.00	25			728	52.0	40 to 60		1.25	5

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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: WMWMILAPFB
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13807

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	1		1.40	5.00	U <1.4	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: WMWMILAPFB
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13807

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			Limit	MB					Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20	
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20	
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20	
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20	
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20	
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20	
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20	
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20	
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	20	
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20	
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20	
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20	
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20	
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20	
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	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: WMWMILAPFB
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13807

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
								Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX13811	Solids, Dissolved	mg/L	1.00	25				728	52.0	40 to 60			1.25	5

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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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX13808

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0260	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	0.832	mg/L
* Calcium, Total	HRG	6/26/2017	EPA 200.7	10		1	5	144	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0656	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.0784	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	J 0.00613	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			100	928	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	31	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	30		42.0	150	560	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
 The per cent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX13808

Sample	Analysis	Units	MB		MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AX13808	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.0906	0.0994	0.0903	0.085 to 0.115	84.5	70 to 130	9.19	20
AX13808	Cobalt, Total	mg/L	0.00000676	0.0044	0.10	0.155	0.172	0.0985	0.085 to 0.115	89.0	70 to 130	10.7	20
AX13808	Antimony, Total	mg/L	0.0000570	0.00132	0.10	0.0844	0.0930	0.0943	0.085 to 0.115	84.4	70 to 130	9.71	20
AX13808	Arsenic, Total	mg/L	0.0000156	0.0022	0.10	0.0901	0.0993	0.0978	0.085 to 0.115	90.1	70 to 130	9.79	20
AX13808	Boron, Total	mg/L	0.000940	0.044	1.00	1.78	1.79	0.915	0.85 to 1.15	95.2	70 to 130	0.526	20
AX13808	Calcium, Total	mg/L	-0.00943	0.22	5.0	151	151	4.94	4.25 to 5.75	140	70 to 130	0.00	20
AX13808	Chromium, Total	mg/L	0.0000246	0.0044	0.10	0.0899	0.0991	0.0960	0.085 to 0.115	89.9	70 to 130	9.65	20
AX13808	Lithium, Total	mg/L	-0.0000249	0.022	0.20	0.283	0.288	0.189	0.17 to 0.23	102	70 to 130	1.95	20
AX13808	Barium, Total	mg/L	0.0000238	0.0044	0.10	0.109	0.122	0.0954	0.085 to 0.115	83.2	70 to 130	11.0	20
AX13808	Mercury, Total by CVAA	mg/L	0.0000395	0.0005	0.004	0.00358	0.00344	0.00381	0.0034 to 0.0046	89.6	70 to 130	3.98	20
AX13808	Lead, Total	mg/L	0.0000229	0.0022	0.10	0.0949	0.105	0.0996	0.085 to 0.115	94.9	70 to 130	10.5	20
AX13808	Thallium, Total	mg/L	0.0000219	0.00044	0.10	0.0945	0.105	0.0977	0.085 to 0.115	94.5	70 to 130	10.7	20
AX13808	Beryllium, Total	mg/L	0.0000286	0.00132	0.10	0.0892	0.0991	0.0976	0.085 to 0.115	89.2	70 to 130	10.4	20
AX13808	Cadmium, Total	mg/L	0.00000652	0.00044	0.10	0.0903	0.0995	0.102	0.085 to 0.115	90.3	70 to 130	9.73	20
AX13808	Selenium, Total	mg/L	0.0000233	0.0044	0.10	0.0888	0.0966	0.101	0.085 to 0.115	88.8	70 to 130	8.35	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

The per cent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 12-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX13808

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	Limit	
								Duplicate	LFB	Limit	Rec	Limit	Prec	Limit
AX13811	Solids, Dissolved	mg/L	1.00	25				728	52.0	40 to 60			1.25	5

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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

The per cent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX13809

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00222	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0340	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	0.673	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	10		1	5	82.3	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.147	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0255	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			50	636	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	26	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.18	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	20		28.0	100	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX13809

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX13809

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX13811	Solids, Dissolved	mg/L	1.00	25			728	52.0	40 to 60		1.25	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

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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX13810

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	J 0.00144	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0307	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.715	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		10	1	5	110	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.108	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00732	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C		1		50	780	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	27	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.10	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		20	28.0	100	360	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX13810

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX13810

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX13811	Solids, Dissolved	mg/L	1.00	25			728	52.0	40 to 60		1.25	5

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Laboratory certification ID: E571114

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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX13811

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0179	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	1.59	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	56.6	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	J 0.0338	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0454	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/22/2017	SM 2540C	1			50	710	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	4.6	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.43	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	40		56.0	200	330	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX13811

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130	0.992	20
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130	1.03	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130	1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130	0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130	0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130	4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130	0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130	3.59	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130	1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130	1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130	3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130	0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130	0.606	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130	6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130	4.92	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX13811

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX13811	Solids, Dissolved	mg/L	1.00	25			728	52.0	40 to 60		1.25	5

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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8S Dup

Laboratory ID Number: AX13812

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0192	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	1.60	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	56.5	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	J 0.0338	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0472	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C		1		50	676	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	4.8	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.43	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		40	56.0	200	310	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8S Dup

Laboratory ID Number: AX13812

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			Limit	MB					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8S Dup

Laboratory ID Number: AX13812

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec		
			Limit	Limit			Duplicate	LFB	Limit	Limit		
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60		4.96	5

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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX13813

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0344	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	1.13	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	51.6	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	J 0.00333	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	J 0.0355	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0260	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C		1		50	632	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	7.0	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.30	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		40	56.0	200	300	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX13813

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX13813

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13813	Solids, Dissolved	mg/L	4.00	25			698	44.0	40 to 60		4.96
											5

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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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX13814

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	J 0.00197	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0108	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7		2	0.02	0.1	0.695	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7		2	0.10	0.5	65.8	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8		5	0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	0.0193	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1		1	0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7		2	0.010	0.05	0.0723	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8		5	0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8		5	0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8		5	0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	GAS	6/23/2017	SM 2540C		1		50	856	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E		1	0.60	2.00	14	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C		1	0.032	0.10	0.14	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E		20	28.0	100	510	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX13814

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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: WMWMILAP
 Sample Date: 13-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX13814

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13746	Solids, Dissolved	mg/L	4.00	25			44.0	44.0	40 to 60	5.07	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, 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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX13815

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0316	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	0.406	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	50.7	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.103	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/27/2017	SM 2540C	1			50	646	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	6.6	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.16	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	15		21.0	75	410	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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX13815

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX13815

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13817	Solids, Dissolved	mg/L	1.00	25			1840	55.0	40 to 60	3.15	5

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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: WMWMILAPFB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13816

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	2		0.10	0.5	U Not Detected	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	U Not Detected	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/27/2017	SM 2540C	1			25	U Not Detected	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	1		1.40	5.00	U <1.4	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: WMWMILAPFB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13816

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit	Prec		
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115	109	70 to 130	1.03	20	
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115	97.6	70 to 130	0.992	20	
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75	-60.0	70 to 130	1.71	20	
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115	94.5	70 to 130	0.727	20	
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23	115	70 to 130	3.59	20	
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046	93.7	70 to 130	0.0827	20	
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115	96.1	70 to 130	0.342	20	
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115	101	70 to 130	4.92	20	
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115	93.6	70 to 130	6.25	20	
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115	101	70 to 130	4.92	20	
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115	91.7	70 to 130	1.27	20	
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15	97.8	70 to 130	1.86	20	
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115	98.4	70 to 130	3.09	20	
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115	99.0	70 to 130	0.340	20	
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115	93.4	70 to 130	0.606	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: WMWMILAPFB
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX13816

Sample	Analysis	Units	MB	MB Limit	Spike	LFM	Sample Duplicate	LFB	LFB Limit	Rec	Rec Limit	Prec	Prec Limit
AX13817	Solids, Dissolved	mg/L	1.00	25			1840	55.0	40 to 60			3.15	5

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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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX13817

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	J 0.00161	mg/L
* Barium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0221	mg/L
* Beryllium, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Boron, Total	HRG	6/23/2017	EPA 200.7	2		0.02	0.1	2.83	mg/L
* Calcium, Total	HRG	6/23/2017	EPA 200.7	10		1	5	177	mg/L
* Cadmium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
* Antimony, Total	JHK	6/21/2017	EPA 200.8	5		0.00060	0.003	U Not Detected	mg/L
* Cobalt, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Chromium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	6/22/2017	EPA 245.1	1		0.00025	0.0005	U Not Detected	mg/L
* Lithium, Total	HRG	6/23/2017	EPA 200.7	2		0.010	0.05	0.205	mg/L
* Molybdenum, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	0.0368	mg/L
* Lead, Total	JHK	6/21/2017	EPA 200.8	5		0.0010	0.005	U Not Detected	mg/L
* Selenium, Total	JHK	6/21/2017	EPA 200.8	5		0.0020	0.01	U Not Detected	mg/L
* Thallium, Total	JHK	6/21/2017	EPA 200.8	5		0.00020	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	KRC	6/27/2017	SM 2540C	1			125	1960	mg/L
* Chloride, Total, by Test America	SGC	7/13/2017	SM 4500 Cl_E	1		0.60	2.00	8.0	mg/L
* Fluoride, Total, by Test America	SGC	7/13/2017	SM 4500 F_C	1		0.032	0.10	0.63	mg/L
* Sulfate, Total, by Test America	SGC	7/13/2017	SM 4500 SO4_E	35		49.0	180	1100	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
 The percent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX13817

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AX13817	Cobalt, Total	mg/L	0.00000674	0.0044	0.10	0.109	0.108	0.104	0.085 to 0.115		109	70 to 130		1.03	20
AX13817	Arsenic, Total	mg/L	0.0000114	0.0022	0.10	0.0992	0.0982	0.0979	0.085 to 0.115		97.6	70 to 130		0.992	20
AX13817	Calcium, Total	mg/L	-0.0151	0.22	5.	174	177	4.46	4.25 to 5.75		-60.0	70 to 130		1.71	20
AX13817	Mercury, Total by CVAA	mg/L	0.0000405	0.0005	0.004	0.00375	0.00375	0.00383	0.0034 to 0.0046		93.7	70 to 130		0.0827	20
AX13817	Selenium, Total	mg/L	0.0000465	0.0044	0.10	0.0961	0.0965	0.101	0.085 to 0.115		96.1	70 to 130		0.342	20
AX13817	Thallium, Total	mg/L	0.0000411	0.00044	0.10	0.101	0.106	0.101	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Barium, Total	mg/L	0.0000239	0.0044	0.10	0.117	0.116	0.0963	0.085 to 0.115		94.5	70 to 130		0.727	20
AX13817	Lithium, Total	mg/L	-0.0000242	0.022	0.20	0.434	0.450	0.170	0.17 to 0.23		115	70 to 130		3.59	20
AX13817	Beryllium, Total	mg/L	0.0000475	0.00132	0.10	0.0936	0.0996	0.102	0.085 to 0.115		93.6	70 to 130		6.25	20
AX13817	Lead, Total	mg/L	0.0000414	0.0022	0.10	0.101	0.106	0.103	0.085 to 0.115		101	70 to 130		4.92	20
AX13817	Antimony, Total	mg/L	0.0000734	0.00132	0.10	0.0917	0.0906	0.0938	0.085 to 0.115		91.7	70 to 130		1.27	20
AX13817	Boron, Total	mg/L	0.00103	0.044	1.00	3.81	3.74	0.982	0.85 to 1.15		97.8	70 to 130		1.86	20
AX13817	Cadmium, Total	mg/L	0.00000977	0.00044	0.10	0.0984	0.0954	0.101	0.085 to 0.115		98.4	70 to 130		3.09	20
AX13817	Chromium, Total	mg/L	0.0000260	0.0044	0.10	0.0990	0.0994	0.0982	0.085 to 0.115		99.0	70 to 130		0.340	20
AX13817	Molybdenum, Total	mg/L	0.0000104	0.0044	0.10	0.130	0.129	0.0919	0.085 to 0.115		93.4	70 to 130		0.606	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

The percent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

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: WMWMILAP
 Sample Date: 14-Jun-17
 Customer ID:
 Delivery Date: 15-Jun-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX13817

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX13817	Solids, Dissolved	mg/L	1.00	25			1840	55.0	40 to 60	3.15	5

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

The percent recovery for Calcium, Total is out of spec. However, the concentrations of the matrix spike/matrix spike duplicate is less than 30% of the sample concentration.
 fkk 7/17/17

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 06/15/2017 08:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (250mL): Anions		
Comments	All anions outsourced to Test America, Pensacola.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	06/12/2017	12:26	4	Groundwater		AX13789
MW-5	06/12/2017	13:46	4	Groundwater		AX13790
MW-15	06/12/2017	15:20	4	Groundwater		AX13791
MW-16	06/12/2017	17:09	4	Groundwater		AX13792
MW-10	06/13/2017	09:17	4	Groundwater		AX13793
MW-10 Dup	06/13/2017	09:17	4	Sample Duplicate		AX13794
MW-13S	06/13/2017	10:57	4	Groundwater		AX13795
MW-13D	06/13/2017	12:46	4	Groundwater		AX13796
MW-14	06/13/2017	14:14	4	Groundwater		AX13797
MW-11	06/14/2017	11:12	4	Groundwater		AX13798
FB-3	06/14/2017	11:50	4	Field Blank		AX13799
MW-1	06/14/2017	14:55	4	Groundwater		AX13800
MW-2	06/14/2017	16:38	4	Groundwater		AX13801
EB-1	06/14/2017	17:28	4	Equipment Blank		AX13802

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: 2017.06.15 09:08:00 -05'00'</small>	06/15/2017 09:08

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
		0.1 degrees C
		Thermometer ID
		5408-27568-2-2
		pH Strip ID
		5881-30147-10-1



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

- Field Complete
- Lab Complete

Lab ETA 06/15/2017 09:30

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Ben Rothschild"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (500mL): Metals, Bottle 2 (250mL): Hg, Bottle 3 (500mL): TDS, Bottle 4 (250mL): Anions"/>		
Comments	<input type="text" value="All anions outsourced to Test America, Pensacola."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	06/12/2017	12:56	4	Groundwater		AX13803
MW-3S	06/12/2017	14:03	4	Groundwater		AX13804
MW-4	06/12/2017	15:08	4	Groundwater		AX13805
MW-4 DUP	06/12/2017	15:08	4	Sample Duplicate		AX13806
FB-1	06/12/2017	16:15	4	Field Blank		AX13807
MW-6	06/12/2017	17:00	4	Groundwater		AX13808
MW-7S	06/13/2017	10:20	4	Groundwater		AX13809
MW-7D	06/13/2017	11:20	4	Groundwater		AX13810
MW-8S	06/13/2017	12:36	4	Groundwater		AX13811
MW-8S DUP	06/13/2017	12:36	4	Sample Duplicate		AX13812
MW-8D	06/13/2017	13:42	4	Groundwater		AX13813
MW-9D	06/13/2017	15:00	4	Groundwater		AX13814
MW-9S	06/14/2017	09:34	4	Groundwater		AX13815
FB-2	06/14/2017	10:40	4	Field Blank		AX13816
MW-12	06/14/2017	11:23	4	Groundwater		AX13817

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernco.com, c=US Date: 2017.06.15 09:12:24 -05'00'</small>	06/15/2017 09:12

SmarTroll ID	<input type="text" value="5151-26193-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20010-2-2"/>	Cooler Temp
		<input type="text" value="0.2 degrees C"/>
		Thermometer ID
		<input type="text" value="5408-27568-2-2"/>
		pH Strip ID
		<input type="text" value="5881-30147-10-1"/>

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: 400-139470-1

TestAmerica Sample Delivery Group: Miller Ash Pond (8)

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

7/12/2017 10:23:24 AM

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 Miller

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Job ID: 400-139470-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-139470-1

General Chemistry

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with analytical batch 359018 was outside control limits: AX13798 MW-11 (400-139470-10). The associated Laboratory Control Sample (LCS) precision met acceptance criteria.

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 359461 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 Cl- E: The matrix spike duplicate (MSD) recoveries for analytical batch 359027 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 method blank for analytical batch 358713 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AX13789 PZ-5 (400-139470-1), AX13790 MW-5 (400-139470-2), AX13791 MW-15 (400-139470-3), AX13792 MW-16 (400-139470-4), AX13793 MW-10 (400-139470-5), AX13794 MW-10 DUP (400-139470-6), AX13795 MW-13S (400-139470-7), AX13796 MW-13D (400-139470-8), AX13797 MW-14 (400-139470-9), AX13798 MW-11 (400-139470-10), AX13798 MW-11 (400-139470-10[MS]), AX13798 MW-11 (400-139470-10[MSD]), AX13800 MW-1 (400-139470-12), AX13801 MW-2 (400-139470-13), AX13803 MW-3D (400-139470-15), AX13804 MW-3S (400-139470-16), AX13805 MW-4 (400-139470-17), AX13806 MW-4 DUP (400-139470-18), AX13808 MW-6 (400-139470-20), AX13808 MW-6 (400-139470-20[MS]), AX13808 MW-6 (400-139470-20[MSD]), AX13809 MW-7S (400-139470-21), AX13810 MW-7D (400-139470-22), AX13811 MW-8S (400-139470-23), AX13812 MW-8S DUP (400-139470-24), AX13813 MW-8D (400-139470-25), AX13814 MW-9D (400-139470-26), AX13815 MW-9S (400-139470-27), AX13817 MW-12 (400-139470-29), AX13817 MW-12 (400-139470-29[MS]) and AX13817 MW-12 (400-139470-29[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 359056 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 Summary

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

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 Miller

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139470-1	AX13789 PZ-5	Water	06/12/17 12:26	06/20/17 09:12
400-139470-2	AX13790 MW-5	Water	06/12/17 13:46	06/20/17 09:12
400-139470-3	AX13791 MW-15	Water	06/12/17 15:20	06/20/17 09:12
400-139470-4	AX13792 MW-16	Water	06/12/17 17:09	06/20/17 09:12
400-139470-5	AX13793 MW-10	Water	06/13/17 09:17	06/20/17 09:12
400-139470-6	AX13794 MW-10 DUP	Water	06/13/17 09:17	06/20/17 09:12
400-139470-7	AX13795 MW-13S	Water	06/13/17 10:57	06/20/17 09:12
400-139470-8	AX13796 MW-13D	Water	06/13/17 12:46	06/20/17 09:12
400-139470-9	AX13797 MW-14	Water	06/13/17 14:14	06/20/17 09:12
400-139470-10	AX13798 MW-11	Water	06/14/17 11:12	06/20/17 09:12
400-139470-11	AX13799 FB-3	Water	06/14/17 11:50	06/20/17 09:12
400-139470-12	AX13800 MW-1	Water	06/14/17 14:55	06/20/17 09:12
400-139470-13	AX13801 MW-2	Water	06/14/17 16:38	06/20/17 09:12
400-139470-14	AX13802 EB-1	Water	06/14/17 17:28	06/20/17 09:12
400-139470-15	AX13803 MW-3D	Water	06/12/17 12:56	06/20/17 09:12
400-139470-16	AX13804 MW-3S	Water	06/12/17 14:03	06/20/17 09:12
400-139470-17	AX13805 MW-4	Water	06/12/17 15:08	06/20/17 09:12
400-139470-18	AX13806 MW-4 DUP	Water	06/12/17 15:08	06/20/17 09:12
400-139470-19	AX13807 FB-1	Water	06/12/17 16:15	06/20/17 09:12
400-139470-20	AX13808 MW-6	Water	06/12/17 17:00	06/20/17 09:12
400-139470-21	AX13809 MW-7S	Water	06/13/17 10:20	06/20/17 09:12
400-139470-22	AX13810 MW-7D	Water	06/13/17 11:20	06/20/17 09:12
400-139470-23	AX13811 MW-8S	Water	06/13/17 12:36	06/20/17 09:12
400-139470-24	AX13812 MW-8S DUP	Water	06/13/17 12:36	06/20/17 09:12
400-139470-25	AX13813 MW-8D	Water	06/13/17 13:42	06/20/17 09:12
400-139470-26	AX13814 MW-9D	Water	06/13/17 15:00	06/20/17 09:12
400-139470-27	AX13815 MW-9S	Water	06/14/17 09:34	06/20/17 09:12
400-139470-28	AX13816 FB-2	Water	06/14/17 10:40	06/20/17 09:12
400-139470-29	AX13817 MW-12	Water	06/14/17 11:23	06/20/17 09:12

Client Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13789 PZ-5

Lab Sample ID: 400-139470-1

Date Collected: 06/12/17 12:26

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		2.0	0.60	mg/L			06/30/17 10:04	1
Fluoride	1.1		0.10	0.032	mg/L			06/29/17 11:37	1
Sulfate	150	B	50	14	mg/L			06/28/17 13:04	10

Client Sample ID: AX13790 MW-5

Lab Sample ID: 400-139470-2

Date Collected: 06/12/17 13:46

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53		4.0	1.2	mg/L			06/30/17 10:35	2
Fluoride	0.29		0.10	0.032	mg/L			06/29/17 11:39	1
Sulfate	940	B	150	42	mg/L			06/28/17 13:04	30

Client Sample ID: AX13791 MW-15

Lab Sample ID: 400-139470-3

Date Collected: 06/12/17 15:20

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		2.0	0.60	mg/L			06/30/17 10:04	1
Fluoride	0.10		0.10	0.032	mg/L			06/29/17 11:41	1
Sulfate	77	B	50	14	mg/L			06/28/17 13:04	10

Client Sample ID: AX13792 MW-16

Lab Sample ID: 400-139470-4

Date Collected: 06/12/17 17:09

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		2.0	0.60	mg/L			06/30/17 10:04	1
Fluoride	0.14		0.10	0.032	mg/L			06/29/17 11:43	1
Sulfate	510	B	150	42	mg/L			06/28/17 13:09	30

Client Sample ID: AX13793 MW-10

Lab Sample ID: 400-139470-5

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		2.0	0.60	mg/L			06/30/17 10:04	1
Fluoride	0.34		0.10	0.032	mg/L			06/29/17 11:45	1
Sulfate	950	B	150	42	mg/L			06/28/17 13:04	30

Client Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13794 MW-10 DUP

Lab Sample ID: 400-139470-6

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.34		0.10	0.032	mg/L			06/29/17 11:47	1
Sulfate	690		150	42	mg/L			06/30/17 13:56	30

Client Sample ID: AX13795 MW-13S

Lab Sample ID: 400-139470-7

Date Collected: 06/13/17 10:57

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.090	J	0.10	0.032	mg/L			06/29/17 11:49	1
Sulfate	120		50	14	mg/L			06/30/17 13:56	10

Client Sample ID: AX13796 MW-13D

Lab Sample ID: 400-139470-8

Date Collected: 06/13/17 12:46

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.13		0.10	0.032	mg/L			06/30/17 12:30	1
Sulfate	79		15	4.2	mg/L			06/30/17 14:08	3

Client Sample ID: AX13797 MW-14

Lab Sample ID: 400-139470-9

Date Collected: 06/13/17 14:14

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.17		0.10	0.032	mg/L			06/30/17 12:16	1
Sulfate	43		15	4.2	mg/L			06/30/17 14:08	3

Client Sample ID: AX13798 MW-11

Lab Sample ID: 400-139470-10

Date Collected: 06/14/17 11:12

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.14	F2	0.10	0.032	mg/L			06/30/17 12:23	1
Sulfate	620	F1	200	56	mg/L			06/30/17 14:00	40

Client Sample ID: AX13799 FB-3

Lab Sample ID: 400-139470-11

Date Collected: 06/14/17 11:50

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/30/17 12:18	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13799 FB-3

Date Collected: 06/14/17 11:50

Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-11

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			07/05/17 16:48	1
Sulfate	<1.4		5.0	1.4	mg/L			06/30/17 13:50	1

Client Sample ID: AX13800 MW-1

Date Collected: 06/14/17 14:55

Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-12

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.15		0.10	0.032	mg/L			07/05/17 16:50	1
Sulfate	450		150	42	mg/L			06/30/17 14:00	30

Client Sample ID: AX13801 MW-2

Date Collected: 06/14/17 16:38

Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-13

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.0		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	0.060	J	0.10	0.032	mg/L			07/05/17 16:55	1
Sulfate	1700		300	84	mg/L			06/30/17 14:00	60

Client Sample ID: AX13802 EB-1

Date Collected: 06/14/17 17:28

Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-14

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	<0.032		0.10	0.032	mg/L			07/05/17 16:58	1
Sulfate	<1.4		5.0	1.4	mg/L			06/30/17 13:50	1

Client Sample ID: AX13803 MW-3D

Date Collected: 06/12/17 12:56

Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57		4.0	1.2	mg/L			06/30/17 10:35	2
Fluoride	0.29		0.10	0.032	mg/L			06/30/17 12:04	1
Sulfate	710	B	150	42	mg/L			06/28/17 13:09	30

Client Sample ID: AX13804 MW-3S

Date Collected: 06/12/17 14:03

Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-16

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		2.0	0.60	mg/L			06/30/17 10:04	1
Fluoride	0.26		0.10	0.032	mg/L			06/30/17 12:06	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13804 MW-3S

Lab Sample ID: 400-139470-16

Date Collected: 06/12/17 14:03

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	160	B	50	14	mg/L			06/28/17 13:09	10

Client Sample ID: AX13805 MW-4

Lab Sample ID: 400-139470-17

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		4.0	1.2	mg/L			06/30/17 10:35	2
Fluoride	0.27		0.10	0.032	mg/L			06/30/17 12:09	1
Sulfate	790	B	150	42	mg/L			06/28/17 13:09	30

Client Sample ID: AX13806 MW-4 DUP

Lab Sample ID: 400-139470-18

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51		4.0	1.2	mg/L			06/30/17 10:35	2
Fluoride	0.27		0.10	0.032	mg/L			06/30/17 12:10	1
Sulfate	810	B	150	42	mg/L			06/28/17 13:11	30

Client Sample ID: AX13807 FB-1

Lab Sample ID: 400-139470-19

Date Collected: 06/12/17 16:15

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/30/17 12:18	1
Fluoride	<0.032		0.10	0.032	mg/L			07/06/17 15:02	1
Sulfate	<1.4		5.0	1.4	mg/L			06/30/17 13:50	1

Client Sample ID: AX13808 MW-6

Lab Sample ID: 400-139470-20

Date Collected: 06/12/17 17:00

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.10		0.10	0.032	mg/L			06/30/17 11:57	1
Sulfate	560	F1	150	42	mg/L			06/30/17 14:30	30

Client Sample ID: AX13809 MW-7S

Lab Sample ID: 400-139470-21

Date Collected: 06/13/17 10:20

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.18		0.10	0.032	mg/L			06/30/17 12:12	1
Sulfate	260		100	28	mg/L			06/30/17 14:30	20

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13810 MW-7D

Lab Sample ID: 400-139470-22

Date Collected: 06/13/17 11:20

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.10		0.10	0.032	mg/L			06/30/17 12:14	1
Sulfate	360		100	28	mg/L			06/30/17 14:30	20

Client Sample ID: AX13811 MW-8S

Lab Sample ID: 400-139470-23

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.43		0.10	0.032	mg/L			06/30/17 12:37	1
Sulfate	330		200	56	mg/L			06/30/17 14:30	40

Client Sample ID: AX13812 MW-8S DUP

Lab Sample ID: 400-139470-24

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.43		0.10	0.032	mg/L			06/30/17 12:39	1
Sulfate	310		200	56	mg/L			06/30/17 14:35	40

Client Sample ID: AX13813 MW-8D

Lab Sample ID: 400-139470-25

Date Collected: 06/13/17 13:42

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.30		0.10	0.032	mg/L			06/30/17 12:33	1
Sulfate	300		200	56	mg/L			06/30/17 14:35	40

Client Sample ID: AX13814 MW-9D

Lab Sample ID: 400-139470-26

Date Collected: 06/13/17 15:00

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		2.0	0.60	mg/L			06/30/17 12:37	1
Fluoride	0.14		0.10	0.032	mg/L			06/30/17 12:35	1
Sulfate	510		100	28	mg/L			06/30/17 14:35	20

Client Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13815 MW-9S

Lab Sample ID: 400-139470-27

Date Collected: 06/14/17 09:34

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.6		2.0	0.60	mg/L			06/30/17 12:38	1
Fluoride	0.16		0.10	0.032	mg/L			06/30/17 12:41	1
Sulfate	410		75	21	mg/L			06/30/17 15:02	15

Client Sample ID: AX13816 FB-2

Lab Sample ID: 400-139470-28

Date Collected: 06/14/17 10:40

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			06/30/17 12:38	1
Fluoride	<0.032		0.10	0.032	mg/L			07/06/17 15:04	1
Sulfate	<1.4		5.0	1.4	mg/L			06/30/17 14:26	1

Client Sample ID: AX13817 MW-12

Lab Sample ID: 400-139470-29

Date Collected: 06/14/17 11:23

Matrix: Water

Date Received: 06/20/17 09:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0	F1	2.0	0.60	mg/L			06/30/17 12:38	1
Fluoride	0.63		0.10	0.032	mg/L			07/06/17 14:54	1
Sulfate	1100	F1	180	49	mg/L			06/30/17 14:38	35

Definitions/Glossary

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 Miller

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13789 PZ-5
Date Collected: 06/12/17 12:26
Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-1
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	359000	06/30/17 10:04	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:37	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	358713	06/28/17 13:04	JLB	TAL PEN

Client Sample ID: AX13790 MW-5
Date Collected: 06/12/17 13:46
Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-2
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		2	359000	06/30/17 10:35	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:39	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	358713	06/28/17 13:04	JLB	TAL PEN

Client Sample ID: AX13791 MW-15
Date Collected: 06/12/17 15:20
Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-3
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	359000	06/30/17 10:04	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:41	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	358713	06/28/17 13:04	JLB	TAL PEN

Client Sample ID: AX13792 MW-16
Date Collected: 06/12/17 17:09
Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-4
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	359000	06/30/17 10:04	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:43	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	358713	06/28/17 13:09	JLB	TAL PEN

Client Sample ID: AX13793 MW-10
Date Collected: 06/13/17 09:17
Date Received: 06/20/17 09:12

Lab Sample ID: 400-139470-5
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	359000	06/30/17 10:04	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	358713	06/28/17 13:04	JLB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13794 MW-10 DUP

Lab Sample ID: 400-139470-6

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:47	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	359056	06/30/17 13:56	JLB	TAL PEN

Client Sample ID: AX13795 MW-13S

Lab Sample ID: 400-139470-7

Date Collected: 06/13/17 10:57

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	358840	06/29/17 11:49	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	359056	06/30/17 13:56	JLB	TAL PEN

Client Sample ID: AX13796 MW-13D

Lab Sample ID: 400-139470-8

Date Collected: 06/13/17 12:46

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		3	359056	06/30/17 14:08	JLB	TAL PEN

Client Sample ID: AX13797 MW-14

Lab Sample ID: 400-139470-9

Date Collected: 06/13/17 14:14

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:16	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		3	359056	06/30/17 14:08	JLB	TAL PEN

Client Sample ID: AX13798 MW-11

Lab Sample ID: 400-139470-10

Date Collected: 06/14/17 11:12

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:23	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	359056	06/30/17 14:00	JLB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13799 FB-3

Lab Sample ID: 400-139470-11

Date Collected: 06/14/17 11:50

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359461	07/05/17 16:48	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	359056	06/30/17 13:50	JLB	TAL PEN

Client Sample ID: AX13800 MW-1

Lab Sample ID: 400-139470-12

Date Collected: 06/14/17 14:55

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359461	07/05/17 16:50	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	359056	06/30/17 14:00	JLB	TAL PEN

Client Sample ID: AX13801 MW-2

Lab Sample ID: 400-139470-13

Date Collected: 06/14/17 16:38

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359461	07/05/17 16:55	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		60	359056	06/30/17 14:00	JLB	TAL PEN

Client Sample ID: AX13802 EB-1

Lab Sample ID: 400-139470-14

Date Collected: 06/14/17 17:28

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359461	07/05/17 16:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	359056	06/30/17 13:50	JLB	TAL PEN

Client Sample ID: AX13803 MW-3D

Lab Sample ID: 400-139470-15

Date Collected: 06/12/17 12:56

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	359000	06/30/17 10:35	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:04	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	358713	06/28/17 13:09	JLB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13804 MW-3S

Lab Sample ID: 400-139470-16

Date Collected: 06/12/17 14:03

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359000	06/30/17 10:04	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:06	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	358713	06/28/17 13:09	JLB	TAL PEN

Client Sample ID: AX13805 MW-4

Lab Sample ID: 400-139470-17

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	359000	06/30/17 10:35	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:09	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	358713	06/28/17 13:09	JLB	TAL PEN

Client Sample ID: AX13806 MW-4 DUP

Lab Sample ID: 400-139470-18

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		2	359000	06/30/17 10:35	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:10	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	358713	06/28/17 13:11	JLB	TAL PEN

Client Sample ID: AX13807 FB-1

Lab Sample ID: 400-139470-19

Date Collected: 06/12/17 16:15

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:18	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359578	07/06/17 15:02	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	359056	06/30/17 13:50	JLB	TAL PEN

Client Sample ID: AX13808 MW-6

Lab Sample ID: 400-139470-20

Date Collected: 06/12/17 17:00

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 11:57	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	359056	06/30/17 14:30	JLB	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-139470-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13809 MW-7S

Lab Sample ID: 400-139470-21

Date Collected: 06/13/17 10:20

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:12	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	359056	06/30/17 14:30	JLB	TAL PEN

Client Sample ID: AX13810 MW-7D

Lab Sample ID: 400-139470-22

Date Collected: 06/13/17 11:20

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:14	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	359056	06/30/17 14:30	JLB	TAL PEN

Client Sample ID: AX13811 MW-8S

Lab Sample ID: 400-139470-23

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:37	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	359056	06/30/17 14:30	JLB	TAL PEN

Client Sample ID: AX13812 MW-8S DUP

Lab Sample ID: 400-139470-24

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:39	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	359056	06/30/17 14:35	JLB	TAL PEN

Client Sample ID: AX13813 MW-8D

Lab Sample ID: 400-139470-25

Date Collected: 06/13/17 13:42

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:33	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	359056	06/30/17 14:35	JLB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13814 MW-9D

Lab Sample ID: 400-139470-26

Date Collected: 06/13/17 15:00

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:37	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:35	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	359056	06/30/17 14:35	JLB	TAL PEN

Client Sample ID: AX13815 MW-9S

Lab Sample ID: 400-139470-27

Date Collected: 06/14/17 09:34

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:38	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359018	06/30/17 12:41	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		15	359056	06/30/17 15:02	JLB	TAL PEN

Client Sample ID: AX13816 FB-2

Lab Sample ID: 400-139470-28

Date Collected: 06/14/17 10:40

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:38	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359578	07/06/17 15:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	359056	06/30/17 14:26	JLB	TAL PEN

Client Sample ID: AX13817 MW-12

Lab Sample ID: 400-139470-29

Date Collected: 06/14/17 11:23

Matrix: Water

Date Received: 06/20/17 09:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	359027	06/30/17 12:38	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	359578	07/06/17 14:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	359056	06/30/17 14:38	JLB	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 Miller

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

General Chemistry

Analysis Batch: 358713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-1	AX13789 PZ-5	Total/NA	Water	SM 4500 SO4 E	
400-139470-2	AX13790 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-139470-3	AX13791 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-139470-4	AX13792 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-139470-5	AX13793 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-139470-15	AX13803 MW-3D	Total/NA	Water	SM 4500 SO4 E	
400-139470-16	AX13804 MW-3S	Total/NA	Water	SM 4500 SO4 E	
400-139470-17	AX13805 MW-4	Total/NA	Water	SM 4500 SO4 E	
400-139470-18	AX13806 MW-4 DUP	Total/NA	Water	SM 4500 SO4 E	
MB 400-358713/18	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-358713/19	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-358713/15	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-139650-E-4 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-139650-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 358840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-1	AX13789 PZ-5	Total/NA	Water	SM 4500 F C	
400-139470-2	AX13790 MW-5	Total/NA	Water	SM 4500 F C	
400-139470-3	AX13791 MW-15	Total/NA	Water	SM 4500 F C	
400-139470-4	AX13792 MW-16	Total/NA	Water	SM 4500 F C	
400-139470-5	AX13793 MW-10	Total/NA	Water	SM 4500 F C	
400-139470-6	AX13794 MW-10 DUP	Total/NA	Water	SM 4500 F C	
400-139470-7	AX13795 MW-13S	Total/NA	Water	SM 4500 F C	
MB 400-358840/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-358840/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-139400-B-8 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-139400-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-139462-C-2 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 359000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-1	AX13789 PZ-5	Total/NA	Water	SM 4500 Cl- E	
400-139470-2	AX13790 MW-5	Total/NA	Water	SM 4500 Cl- E	
400-139470-3	AX13791 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-139470-4	AX13792 MW-16	Total/NA	Water	SM 4500 Cl- E	
400-139470-5	AX13793 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-139470-15	AX13803 MW-3D	Total/NA	Water	SM 4500 Cl- E	
400-139470-16	AX13804 MW-3S	Total/NA	Water	SM 4500 Cl- E	
400-139470-17	AX13805 MW-4	Total/NA	Water	SM 4500 Cl- E	
400-139470-18	AX13806 MW-4 DUP	Total/NA	Water	SM 4500 Cl- E	
MB 400-359000/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-359000/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-359000/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-139743-B-4 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-139743-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 359018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-8	AX13796 MW-13D	Total/NA	Water	SM 4500 F C	
400-139470-9	AX13797 MW-14	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

General Chemistry (Continued)

Analysis Batch: 359018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-10	AX13798 MW-11	Total/NA	Water	SM 4500 F C	
400-139470-15	AX13803 MW-3D	Total/NA	Water	SM 4500 F C	
400-139470-16	AX13804 MW-3S	Total/NA	Water	SM 4500 F C	
400-139470-17	AX13805 MW-4	Total/NA	Water	SM 4500 F C	
400-139470-18	AX13806 MW-4 DUP	Total/NA	Water	SM 4500 F C	
400-139470-20	AX13808 MW-6	Total/NA	Water	SM 4500 F C	
400-139470-21	AX13809 MW-7S	Total/NA	Water	SM 4500 F C	
400-139470-22	AX13810 MW-7D	Total/NA	Water	SM 4500 F C	
400-139470-23	AX13811 MW-8S	Total/NA	Water	SM 4500 F C	
400-139470-24	AX13812 MW-8S DUP	Total/NA	Water	SM 4500 F C	
400-139470-25	AX13813 MW-8D	Total/NA	Water	SM 4500 F C	
400-139470-26	AX13814 MW-9D	Total/NA	Water	SM 4500 F C	
400-139470-27	AX13815 MW-9S	Total/NA	Water	SM 4500 F C	
MB 400-359018/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-359018/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-139470-10 MS	AX13798 MW-11	Total/NA	Water	SM 4500 F C	
400-139470-10 MSD	AX13798 MW-11	Total/NA	Water	SM 4500 F C	
400-139470-20 MS	AX13808 MW-6	Total/NA	Water	SM 4500 F C	
400-139470-20 MSD	AX13808 MW-6	Total/NA	Water	SM 4500 F C	

Analysis Batch: 359027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-6	AX13794 MW-10 DUP	Total/NA	Water	SM 4500 CI- E	
400-139470-7	AX13795 MW-13S	Total/NA	Water	SM 4500 CI- E	
400-139470-8	AX13796 MW-13D	Total/NA	Water	SM 4500 CI- E	
400-139470-9	AX13797 MW-14	Total/NA	Water	SM 4500 CI- E	
400-139470-10	AX13798 MW-11	Total/NA	Water	SM 4500 CI- E	
400-139470-11	AX13799 FB-3	Total/NA	Water	SM 4500 CI- E	
400-139470-12	AX13800 MW-1	Total/NA	Water	SM 4500 CI- E	
400-139470-13	AX13801 MW-2	Total/NA	Water	SM 4500 CI- E	
400-139470-14	AX13802 EB-1	Total/NA	Water	SM 4500 CI- E	
400-139470-19	AX13807 FB-1	Total/NA	Water	SM 4500 CI- E	
400-139470-20	AX13808 MW-6	Total/NA	Water	SM 4500 CI- E	
400-139470-21	AX13809 MW-7S	Total/NA	Water	SM 4500 CI- E	
400-139470-22	AX13810 MW-7D	Total/NA	Water	SM 4500 CI- E	
400-139470-23	AX13811 MW-8S	Total/NA	Water	SM 4500 CI- E	
400-139470-24	AX13812 MW-8S DUP	Total/NA	Water	SM 4500 CI- E	
400-139470-25	AX13813 MW-8D	Total/NA	Water	SM 4500 CI- E	
400-139470-26	AX13814 MW-9D	Total/NA	Water	SM 4500 CI- E	
400-139470-27	AX13815 MW-9S	Total/NA	Water	SM 4500 CI- E	
400-139470-28	AX13816 FB-2	Total/NA	Water	SM 4500 CI- E	
400-139470-29	AX13817 MW-12	Total/NA	Water	SM 4500 CI- E	
MB 400-359027/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-359027/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-359027/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-139470-10 MS	AX13798 MW-11	Total/NA	Water	SM 4500 CI- E	
400-139470-10 MSD	AX13798 MW-11	Total/NA	Water	SM 4500 CI- E	
400-139470-20 MS	AX13808 MW-6	Total/NA	Water	SM 4500 CI- E	
400-139470-20 MSD	AX13808 MW-6	Total/NA	Water	SM 4500 CI- E	
400-139470-29 MS	AX13817 MW-12	Total/NA	Water	SM 4500 CI- E	
400-139470-29 MSD	AX13817 MW-12	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Analysis Batch: 359056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-6	AX13794 MW-10 DUP	Total/NA	Water	SM 4500 SO4 E	
400-139470-7	AX13795 MW-13S	Total/NA	Water	SM 4500 SO4 E	
400-139470-8	AX13796 MW-13D	Total/NA	Water	SM 4500 SO4 E	
400-139470-9	AX13797 MW-14	Total/NA	Water	SM 4500 SO4 E	
400-139470-10	AX13798 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-139470-11	AX13799 FB-3	Total/NA	Water	SM 4500 SO4 E	
400-139470-12	AX13800 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-139470-13	AX13801 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-139470-14	AX13802 EB-1	Total/NA	Water	SM 4500 SO4 E	
400-139470-19	AX13807 FB-1	Total/NA	Water	SM 4500 SO4 E	
400-139470-20	AX13808 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-139470-21	AX13809 MW-7S	Total/NA	Water	SM 4500 SO4 E	
400-139470-22	AX13810 MW-7D	Total/NA	Water	SM 4500 SO4 E	
400-139470-23	AX13811 MW-8S	Total/NA	Water	SM 4500 SO4 E	
400-139470-24	AX13812 MW-8S DUP	Total/NA	Water	SM 4500 SO4 E	
400-139470-25	AX13813 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-139470-26	AX13814 MW-9D	Total/NA	Water	SM 4500 SO4 E	
400-139470-27	AX13815 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-139470-28	AX13816 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-139470-29	AX13817 MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 400-359056/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-359056/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-359056/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-139470-10 MS	AX13798 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-139470-10 MSD	AX13798 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-139470-20 MS	AX13808 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-139470-20 MSD	AX13808 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-139470-29 MS	AX13817 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-139470-29 MSD	AX13817 MW-12	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 359461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-11	AX13799 FB-3	Total/NA	Water	SM 4500 F C	
400-139470-12	AX13800 MW-1	Total/NA	Water	SM 4500 F C	
400-139470-13	AX13801 MW-2	Total/NA	Water	SM 4500 F C	
400-139470-14	AX13802 EB-1	Total/NA	Water	SM 4500 F C	
MB 400-359461/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-359461/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-139518-B-6 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-139518-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-139518-A-9 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 359578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139470-19	AX13807 FB-1	Total/NA	Water	SM 4500 F C	
400-139470-28	AX13816 FB-2	Total/NA	Water	SM 4500 F C	
400-139470-29	AX13817 MW-12	Total/NA	Water	SM 4500 F C	
MB 400-359578/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-359578/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-139470-29 MS	AX13817 MW-12	Total/NA	Water	SM 4500 F C	
400-139470-29 MSD	AX13817 MW-12	Total/NA	Water	SM 4500 F C	
400-139817-A-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-359000/6
Matrix: Water
Analysis Batch: 359000

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			06/30/17 10:01	1

Lab Sample ID: LCS 400-359000/7
Matrix: Water
Analysis Batch: 359000

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	31.6		mg/L		105	90 - 110

Lab Sample ID: MRL 400-359000/3
Matrix: Water
Analysis Batch: 359000

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	1.80	J	mg/L		90	50 - 150

Lab Sample ID: 400-139743-B-4 MS
Matrix: Water
Analysis Batch: 359000

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11		10.0	20.3		mg/L		95	73 - 120

Lab Sample ID: 400-139743-B-4 MSD
Matrix: Water
Analysis Batch: 359000

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	Limit
Chloride	11		10.0	20.2		mg/L		94	73 - 120	0	8

Lab Sample ID: MB 400-359027/6
Matrix: Water
Analysis Batch: 359027

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			06/30/17 12:02	1

Lab Sample ID: LCS 400-359027/7
Matrix: Water
Analysis Batch: 359027

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 400-359027/3
Matrix: Water
Analysis Batch: 359027

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	1.75	J	mg/L		87	50 - 150

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Lab Sample ID: 400-139470-10 MS
Matrix: Water
Analysis Batch: 359027

Client Sample ID: AX13798 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.9		10.0	19.2		mg/L		113	73 - 120

Lab Sample ID: 400-139470-10 MSD
Matrix: Water
Analysis Batch: 359027

Client Sample ID: AX13798 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	7.9		10.0	19.1		mg/L		112	73 - 120	1	8

Lab Sample ID: 400-139470-20 MS
Matrix: Water
Analysis Batch: 359027

Client Sample ID: AX13808 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	31		10.0	39.9		mg/L		94	73 - 120

Lab Sample ID: 400-139470-20 MSD
Matrix: Water
Analysis Batch: 359027

Client Sample ID: AX13808 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
Chloride	31		10.0	39.9		mg/L		94	73 - 120	0	8

Lab Sample ID: 400-139470-29 MS
Matrix: Water
Analysis Batch: 359027

Client Sample ID: AX13817 MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.0	F1	10.0	19.1		mg/L		112	73 - 120

Lab Sample ID: 400-139470-29 MSD
Matrix: Water
Analysis Batch: 359027

Client Sample ID: AX13817 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	8.0	F1	10.0	20.6	F1	mg/L		127	73 - 120	7	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-358840/3
Matrix: Water
Analysis Batch: 358840

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			06/29/17 10:35	1

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-358840/4
Matrix: Water
Analysis Batch: 358840

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	4.10		mg/L		103	90 - 110

Lab Sample ID: 400-139400-B-8 MS
Matrix: Water
Analysis Batch: 358840

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	0.050	J	1.00	1.04		mg/L		99	75 - 125

Lab Sample ID: 400-139400-B-8 MSD
Matrix: Water
Analysis Batch: 358840

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	0.050	J	1.00	1.02		mg/L		97	75 - 125	2	4

Lab Sample ID: 400-139462-C-2 DU
Matrix: Water
Analysis Batch: 358840

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.86		0.860		mg/L		0	4

Lab Sample ID: MB 400-359018/3
Matrix: Water
Analysis Batch: 359018

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			06/30/17 11:49	1

Lab Sample ID: LCS 400-359018/4
Matrix: Water
Analysis Batch: 359018

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: 400-139470-10 MS
Matrix: Water
Analysis Batch: 359018

Client Sample ID: AX13798 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.14	F2	1.00	1.04		mg/L		90	75 - 125

Lab Sample ID: 400-139470-10 MSD
Matrix: Water
Analysis Batch: 359018

Client Sample ID: AX13798 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	0.14	F2	1.00	1.13	F2	mg/L		99	75 - 125	8	4

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Lab Sample ID: 400-139470-20 MS
Matrix: Water
Analysis Batch: 359018

Client Sample ID: AX13808 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.10		1.00	1.06		mg/L		96	75 - 125

Lab Sample ID: 400-139470-20 MSD
Matrix: Water
Analysis Batch: 359018

Client Sample ID: AX13808 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Fluoride	0.10		1.00	1.08		mg/L		98	75 - 125	2	4

Lab Sample ID: MB 400-359461/3
Matrix: Water
Analysis Batch: 359461

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			07/05/17 16:04	1

Lab Sample ID: LCS 400-359461/4
Matrix: Water
Analysis Batch: 359461

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	4.10		mg/L		103	90 - 110

Lab Sample ID: 400-139518-B-6 MS
Matrix: Water
Analysis Batch: 359461

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	0.97	F1	1.00	1.67	F1	mg/L		70	75 - 125

Lab Sample ID: 400-139518-B-6 MSD
Matrix: Water
Analysis Batch: 359461

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	Limit
Fluoride	0.97	F1	1.00	1.67	F1	mg/L		70	75 - 125	0	4

Lab Sample ID: 400-139518-A-9 DU
Matrix: Water
Analysis Batch: 359461

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Fluoride	0.88		0.880		mg/L		0	4

Lab Sample ID: MB 400-359578/3
Matrix: Water
Analysis Batch: 359578

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			07/06/17 14:46	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-359578/4
 Matrix: Water
 Analysis Batch: 359578

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	4.18		mg/L		105	90 - 110

Lab Sample ID: 400-139470-29 MS
 Matrix: Water
 Analysis Batch: 359578

Client Sample ID: AX13817 MW-12
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.63		1.00	1.74		mg/L		111	75 - 125

Lab Sample ID: 400-139470-29 MSD
 Matrix: Water
 Analysis Batch: 359578

Client Sample ID: AX13817 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
Fluoride	0.63		1.00	1.74		mg/L		111	75 - 125	0	4

Lab Sample ID: 400-139817-A-1 DU
 Matrix: Water
 Analysis Batch: 359578

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032			<0.032		mg/L				NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-358713/18
 Matrix: Water
 Analysis Batch: 358713

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.53	J	5.0	1.4	mg/L			06/28/17 12:15	1

Lab Sample ID: LCS 400-358713/19
 Matrix: Water
 Analysis Batch: 358713

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	16.3		mg/L		108	90 - 110

Lab Sample ID: MRL 400-358713/15
 Matrix: Water
 Analysis Batch: 358713

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	5.51		mg/L		110	50 - 150

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-139650-E-4 MS

Matrix: Water

Analysis Batch: 358713

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
Sulfate	3.0	J B	10.0	12.4		mg/L		94	77 - 128

Lab Sample ID: 400-139650-E-4 MSD

Matrix: Water

Analysis Batch: 358713

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
Sulfate	3.0	J B	10.0	12.3		mg/L		93	77 - 128	1	5

Lab Sample ID: MB 400-359056/6

Matrix: Water

Analysis Batch: 359056

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			06/30/17 13:50	1

Lab Sample ID: LCS 400-359056/7

Matrix: Water

Analysis Batch: 359056

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		102	90 - 110

Lab Sample ID: MRL 400-359056/3

Matrix: Water

Analysis Batch: 359056

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	4.47	J	mg/L		89	50 - 150

Lab Sample ID: 400-139470-10 MS

Matrix: Water

Analysis Batch: 359056

Client Sample ID: AX13798 MW-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	620	F1	400	596	F1	mg/L		-5	77 - 128

Lab Sample ID: 400-139470-10 MSD

Matrix: Water

Analysis Batch: 359056

Client Sample ID: AX13798 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	620	F1	400	615	F1	mg/L		-0.4	77 - 128	3	5

Lab Sample ID: 400-139470-20 MS

Matrix: Water

Analysis Batch: 359056

Client Sample ID: AX13808 MW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	560	F1	300	532	F1	mg/L		-9	77 - 128

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

Lab Sample ID: 400-139470-20 MSD
Matrix: Water
Analysis Batch: 359056

Client Sample ID: AX13808 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
Sulfate	560	F1	300	523	F1	mg/L		-12	77 - 128	2	5

Lab Sample ID: 400-139470-29 MS
Matrix: Water
Analysis Batch: 359056

Client Sample ID: AX13817 MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1100	F1	350	996	F1	mg/L		-19	77 - 128		

Lab Sample ID: 400-139470-29 MSD
Matrix: Water
Analysis Batch: 359056

Client Sample ID: AX13817 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
Sulfate	1100	F1	350	1010	F1	mg/L		-15	77 - 128	1	5



Chain of Custody Record

Client Information		Sampler: Jason Roush Lab PM: Whitmire, Cheyenne R		COC No: 400-56525-24537.1						
Client Contact: Sarah Copeland		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 3						
Company: Alabama Power General Test Laboratory		Due Date Requested:		Job #: 400-139470						
Address: 744 County Rd 87 GSC #8		TAT Requested (days):		Preservation Codes: A - HCL M - Hexane B - NaOH N - None O - AsNaO2 C - Zn Acetate D - Nitric Acid P - Na2O4S E - NaHSO4 R - MeOH F - MeOH G - Ascorbic Acid H - Ascorbic Acid S - H2SO4 T - TSP Dodecahydrate U - Acetone J - DI Water V - MCAA K - EDTA L - EDA W - ph 4-5 Z - other (specify) Other:						
City: Calera		State: AL		Zip: 35040						
Phone: 205-664-6121(Tel)		Email: sgcopela@southerncco.com		Project #: 40007143						
SSOW#: Miller Ash Pond (8)		Site:		Special Instructions/Note:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F _o	SM 4500 Cl _r	SM 4500 SO ₄ F _r	Total Number of Containers
AX13789	6/12/17	1226	G	Water	X	X	X	X	X	1
AX13790	6/12/17	1346	G	Water	X	X	X	X	X	1
AX13791	6/12/17	1520	G	Water	X	X	X	X	X	1
AX13792	6/12/17	1709	G	Water	X	X	X	X	X	1
AX13793	6/13/17	0917	G	Water	X	X	X	X	X	1
AX13794	6/13/17	0917	G	Water	X	X	X	X	X	1
AX13795	6/13/17	1057	G	Water	X	X	X	X	X	1
AX13796	6/13/17	1246	G	Water	X	X	X	X	X	1
AX13797	6/13/17	1414	G	Water	X	X	X	X	X	1
AX13798	6/14/17	1112	G	Water	Y	X	X	X	X	1
AX13799	6/14/17	1150	G	Water	X	X	X	X	X	1
AX13800	6/14/17	1455	G	Water	X	X	X	X	X	1
<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)										
Empty Kit Relinquished by: Sarah Copeland Date: 06/19/2017; 830 Relinquished by: Relinquished by: Relinquished by:										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 1.1°C LK 570										



Chain of Custody Record

Client Information		Sampler: Jason Rouss / Ben Rothschild		Lab PM: Whitmire, Cheyenne R		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		Phone: [blank]		E-Mail: cheyenne.whitmire@testamericainc.com		Page 2 of 3	
Company: Alabama Power General Test Laboratory		Address: 744 County Rd 87 GSC #8		City: Calera		State, Zip: AL, 35040	
Phone: 205-664-6121(Tel)		PO #: [blank]		IWO #: [blank]		Project #: 40007143	
Email: sgcopela@southernco.com		Project Name: CCR		Site: Miller Ash Pond (8)		SSOW#: [blank]	
Due Date Requested: [blank]		TAT Requested (days): Routine		Field Filtered Sample (Yes or No)		Form MS/MSD (Yes or No)	
SM 4500 F.C		SM 4500 C.F		SM 4500 S.O4.E		Total Number of Containers	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (w=water, s=solid, o=wastewater, BT=biomass, Ash)		Preservation Code:		Field Filtered Sample (Yes or No)		Form MS/MSD (Yes or No)	
AX13801	6/14/17	1638	G	Water	X	X	1
AX13802	6/14/17	1728	G	Water	X	X	1
AX13803	6/12/17	1256	G	Water	X	X	1
AX13804	6/12/17	1403	G	Water	X	X	1
AX13805	6/12/17	1508	G	Water	X	X	1
AX13806	6/12/17	1508	G	Water	X	X	1
AX13807	6/12/17	1615	G	Water	X	X	1
AX13808	6/12/17	1700	G	Water	Y	X	1
AX13809	6/13/17	1020	G	Water	X	X	1
AX13810	6/13/17	1120	G	Water	X	X	1
AX13811	6/13/17	1236	G	Water	X	X	1
AX13812	6/13/17	1236	G	Water	X	X	1
Special Instructions/Note:		Special Instructions/QC Requirements:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Archive For Months	
MW-2		EB-1 (Equipment Blank)		Return To Client <input type="checkbox"/>		Disposal By Lab <input type="checkbox"/>	
MW-3D		MW-3S		Special Instructions/QC Requirements:		Method of Shipment:	
MW-4		MW-4 Dup (Sample Duplicate)		Date/Time: 6/20/17		Company: APC	
MW-5		FB-1 (Field Blank)		Date/Time: [blank]		Company: [blank]	
MW-6		MW-6		Date/Time: [blank]		Company: [blank]	
MW-7S		MW-7S		Date/Time: [blank]		Company: [blank]	
MW-7D		MW-7D		Date/Time: [blank]		Company: [blank]	
MW-8S		MW-8S Dup (Sample Duplicate)		Date/Time: [blank]		Company: [blank]	
MW-8S Dup (Sample Duplicate)		MW-8S Dup (Sample Duplicate)		Date/Time: [blank]		Company: [blank]	
Cooler Temperature(s) °C and Other Remarks: I.C. IR		Custody Seal No.: [blank]		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: [blank]	



Chain of Custody Record

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: 06/19/2017: 830
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seal No.: _____
 Δ Yes Δ No

Client Information
 Sampler: Ben Rothschadl
 Phone: _____
 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: Calera
 State, Zip: AL, 35040
 Phone: 205-664-6121 (Tel)
 Email: sgcopela@southernco.com
 Project Name: CCR
 Project #: 40007143
 SSOW#: _____
 Site: Miller Ash Pond (8)

Analysis Requested
 Due Date Requested: _____
 TAT Requested (days): Routine
 PO #: _____
 WO #: _____
 Perform MS/MSD (Yes or No) Yes No
 Field Filtered Sample (Yes or No) Yes No
 Total Number of Containers: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Gas, etc.)	Preservation Code	SM 4500 F.C	SM 4500 C.L.E	SM 4500 S.O4.E	Special Instructions/Note:
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
AX13813	6/13/17	1342	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-8D
AX13814	6/13/17	1500	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-9D
AX13815	6/14/17	0934	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-9S
AX13816	6/14/17	1040	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FB-2 (Field Blank)
AX13817	6/14/17	1123	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-12

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

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

Special Instructions/QC Requirements: _____
 Method of Shipment: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: 1.1°C IR7 TO

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-139470-1
SDG Number: Miller Ash Pond (8)

Login Number: 139470

List Number: 1

Creator: Siddoway, Benjamin

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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 Miller

TestAmerica Job ID: 400-139470-1
 SDG: Miller Ash Pond (8)

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	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
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	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17 *
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-17 *
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
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

* 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: 400-139458-1

TestAmerica Sample Delivery Group: Miller Ash Pond (8)

Client Project/Site: CCR Plant Miller

For:

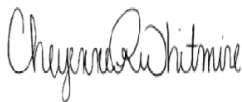
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

7/21/2017 5:47:03 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC 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 Miller

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Job ID: 400-139458-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-139458-1

RAD

Method(s) PrecSep_0: Radium 228 Prep Batch 160-315565. The following samples were reduced due to limited volume: AX13818 PZ-5 (400-139458-1), AX13819 MW-5 (400-139458-2), AX13819 MW-5 (400-139458-2[DUJ]), AX13820 MW-15 (400-139458-3), AX13821 MW-16 (400-139458-4), AX13822 MW-10 (400-139458-5), AX13823 MW-10 DUP (400-139458-6), AX13824 MW-13S (400-139458-7), AX13825 MW-13D (400-139458-8), AX13826 MW-14 (400-139458-9), AX13827 MW-11 (400-139458-10), AX13828 FB-3 (400-139458-11), AX13829 MW-1 (400-139458-12), AX13830 MW-2 (400-139458-13), AX13831 EB-1 (400-139458-14), AX13832 MW-3D (400-139458-15), AX13833 MW-3S (400-139458-16), AX13834 MW-4 (400-139458-17), AX13835 MW-4 DUP (400-139458-18) and AX13836 FB-1 (400-139458-19).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-315644. The following samples were reduced due to limited volume: AX13837 MW-6 (400-139458-20), AX13837 MW-6 (400-139458-20[DUJ]), AX13838 MW-7S (400-139458-21), AX13839 MW-7D (400-139458-22), AX13840 MW-8S (400-139458-23), AX13841 MW-8S DUP (400-139458-24), AX13842 MW-8D (400-139458-25), AX13843 MW-9D (400-139458-26), AX13844 MW-9S (400-139458-27), AX13845 FB-2 (400-139458-28) and AX13846 MW-12 (400-139458-29).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-315561. The following samples were reduced due to limited volume: AX13818 PZ-5 (400-139458-1), AX13819 MW-5 (400-139458-2), AX13819 MW-5 (400-139458-2[DUJ]), AX13820 MW-15 (400-139458-3), AX13821 MW-16 (400-139458-4), AX13822 MW-10 (400-139458-5), AX13823 MW-10 DUP (400-139458-6), AX13824 MW-13S (400-139458-7), AX13825 MW-13D (400-139458-8), AX13826 MW-14 (400-139458-9), AX13827 MW-11 (400-139458-10), AX13828 FB-3 (400-139458-11), AX13829 MW-1 (400-139458-12), AX13830 MW-2 (400-139458-13), AX13831 EB-1 (400-139458-14), AX13832 MW-3D (400-139458-15), AX13833 MW-3S (400-139458-16), AX13834 MW-4 (400-139458-17), AX13835 MW-4 DUP (400-139458-18) and AX13836 FB-1 (400-139458-19).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-315570. The following samples were reduced due to limited volume: AX13837 MW-6 (400-139458-20), AX13837 MW-6 (400-139458-20[DUJ]), AX13838 MW-7S (400-139458-21), AX13839 MW-7D (400-139458-22), AX13840 MW-8S (400-139458-23), AX13841 MW-8S DUP (400-139458-24), AX13842 MW-8D (400-139458-25), AX13843 MW-9D (400-139458-26), AX13844 MW-9S (400-139458-27), AX13845 FB-2 (400-139458-28) and AX13846 MW-12 (400-139458-29).

Method Summary

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

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 Miller

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139458-1	AX13818 PZ-5	Water	06/12/17 12:26	06/20/17 16:00
400-139458-2	AX13819 MW-5	Water	06/12/17 13:46	06/20/17 16:00
400-139458-3	AX13820 MW-15	Water	06/12/17 15:20	06/20/17 16:00
400-139458-4	AX13821 MW-16	Water	06/12/17 17:09	06/20/17 16:00
400-139458-5	AX13822 MW-10	Water	06/13/17 09:17	06/20/17 16:00
400-139458-6	AX13823 MW-10 DUP	Water	06/13/17 09:17	06/20/17 16:00
400-139458-7	AX13824 MW-13S	Water	06/13/17 10:57	06/20/17 16:00
400-139458-8	AX13825 MW-13D	Water	06/13/17 12:46	06/20/17 16:00
400-139458-9	AX13826 MW-14	Water	06/13/17 14:14	06/20/17 16:00
400-139458-10	AX13827 MW-11	Water	06/14/17 11:12	06/20/17 16:00
400-139458-11	AX13828 FB-3	Water	06/14/17 11:50	06/20/17 16:00
400-139458-12	AX13829 MW-1	Water	06/14/17 14:55	06/20/17 16:00
400-139458-13	AX13830 MW-2	Water	06/14/17 16:38	06/20/17 16:00
400-139458-14	AX13831 EB-1	Water	06/14/17 17:28	06/20/17 16:00
400-139458-15	AX13832 MW-3D	Water	06/12/17 12:56	06/20/17 16:00
400-139458-16	AX13833 MW-3S	Water	06/12/17 14:03	06/20/17 16:00
400-139458-17	AX13834 MW-4	Water	06/12/17 15:08	06/20/17 16:00
400-139458-18	AX13835 MW-4 DUP	Water	06/12/17 15:08	06/20/17 16:00
400-139458-19	AX13836 FB-1	Water	06/12/17 16:15	06/20/17 16:00
400-139458-20	AX13837 MW-6	Water	06/12/17 17:00	06/20/17 16:00
400-139458-21	AX13838 MW-7S	Water	06/13/17 10:20	06/20/17 16:00
400-139458-22	AX13839 MW-7D	Water	06/13/17 11:20	06/20/17 16:00
400-139458-23	AX13840 MW-8S	Water	06/13/17 12:36	06/20/17 16:00
400-139458-24	AX13841 MW-8S DUP	Water	06/13/17 12:36	06/20/17 16:00
400-139458-25	AX13842 MW-8D	Water	06/13/17 13:42	06/20/17 16:00
400-139458-26	AX13843 MW-9D	Water	06/13/17 15:00	06/20/17 16:00
400-139458-27	AX13844 MW-9S	Water	06/14/17 09:34	06/20/17 16:00
400-139458-28	AX13845 FB-2	Water	06/14/17 10:40	06/20/17 16:00
400-139458-29	AX13846 MW-12	Water	06/14/17 11:23	06/20/17 16:00

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13818 PZ-5

Lab Sample ID: 400-139458-1

Date Collected: 06/12/17 12:26

Matrix: Water

Date Received: 06/20/17 16:00

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		0.0807	0.0816	1.00	0.0945	pCi/L	06/28/17 07:38	07/20/17 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					06/28/17 07:38	07/20/17 06:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.347	U	0.317	0.318	1.00	0.510	pCi/L	06/28/17 08:02	07/10/17 10:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					06/28/17 08:02	07/10/17 10:40	1
Y Carrier	83.0		40 - 110					06/28/17 08:02	07/10/17 10:40	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	0.480	U	0.327	0.329	5.00	0.510	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13819 MW-5

Lab Sample ID: 400-139458-2

Date Collected: 06/12/17 13:46

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0238	U	0.0516	0.0516	1.00	0.0966	pCi/L	06/28/17 07:38	07/20/17 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					06/28/17 07:38	07/20/17 06:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.329	U	0.269	0.270	1.00	0.425	pCi/L	06/28/17 08:02	07/10/17 10:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					06/28/17 08:02	07/10/17 10:40	1
Y Carrier	87.9		40 - 110					06/28/17 08:02	07/10/17 10:40	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	0.353	U	0.274	0.275	5.00	0.425	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13820 MW-15

Lab Sample ID: 400-139458-3

Date Collected: 06/12/17 15:20

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0245	U	0.0494	0.0495	1.00	0.0927	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0985	U	0.350	0.350	1.00	0.608	pCi/L	06/28/17 08:02	07/10/17 10:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					06/28/17 08:02	07/10/17 10:40	1
Y Carrier	80.7		40 - 110					06/28/17 08:02	07/10/17 10:40	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	0.123	U	0.353	0.353	5.00	0.608	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13821 MW-16

Lab Sample ID: 400-139458-4

Date Collected: 06/12/17 17:09

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.145		0.0827	0.0837	1.00	0.0914	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0801	U	0.303	0.303	1.00	0.527	pCi/L	06/28/17 08:02	07/10/17 10:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					06/28/17 08:02	07/10/17 10:40	1
Y Carrier	87.5		40 - 110					06/28/17 08:02	07/10/17 10:40	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	0.226	U	0.314	0.314	5.00	0.527	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13822 MW-10

Lab Sample ID: 400-139458-5

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182		0.0901	0.0915	1.00	0.0881	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0345	U	0.282	0.282	1.00	0.513	pCi/L	06/28/17 08:02	07/10/17 10:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					06/28/17 08:02	07/10/17 10:40	1
Y Carrier	82.6		40 - 110					06/28/17 08:02	07/10/17 10:40	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	0.147	U	0.296	0.297	5.00	0.513	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13823 MW-10 DUP

Lab Sample ID: 400-139458-6

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.231		0.0975	0.0997	1.00	0.0835	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.119	U	0.265	0.265	1.00	0.456	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	84.1		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.350	U	0.282	0.283	5.00	0.456	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13824 MW-13S

Lab Sample ID: 400-139458-7

Date Collected: 06/13/17 10:57

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0679	U	0.0578	0.0581	1.00	0.0780	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.344	U	0.253	0.255	1.00	0.393	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	84.5		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.412		0.260	0.262	5.00	0.393	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13825 MW-13D

Lab Sample ID: 400-139458-8

Date Collected: 06/13/17 12:46

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150		0.0911	0.0921	1.00	0.0979	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.312	0.312	1.00	0.533	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	83.7		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.305	U	0.325	0.326	5.00	0.533	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13826 MW-14

Lab Sample ID: 400-139458-9

Date Collected: 06/13/17 14:14

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121		0.0735	0.0743	1.00	0.0819	pCi/L	06/28/17 07:38	07/20/17 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/28/17 07:38	07/20/17 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0250	U	0.296	0.296	1.00	0.533	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	82.2		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.0960	U	0.305	0.306	5.00	0.533	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13827 MW-11

Lab Sample ID: 400-139458-10

Date Collected: 06/14/17 11:12

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0106	U	0.0323	0.0323	1.00	0.0955	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.139	U	0.256	0.256	1.00	0.437	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	84.9		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.129	U	0.258	0.258	5.00	0.437	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13828 FB-3

Lab Sample ID: 400-139458-11

Date Collected: 06/14/17 11:50

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0485	U	0.0555	0.0557	1.00	0.0850	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.105	U	0.211	0.211	1.00	0.407	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	89.0		40 - 110					06/28/17 08:02	07/10/17 10:41	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	-0.0569	U	0.218	0.218	5.00	0.407	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13829 MW-1

Lab Sample ID: 400-139458-12

Date Collected: 06/14/17 14:55

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.250		0.104	0.107	1.00	0.0864	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0108	U	0.267	0.267	1.00	0.478	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	88.6		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.261	U	0.286	0.287	5.00	0.478	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13830 MW-2

Lab Sample ID: 400-139458-13

Date Collected: 06/14/17 16:38

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152		0.0868	0.0879	1.00	0.0968	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.723		0.341	0.347	1.00	0.493	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	83.0		40 - 110					06/28/17 08:02	07/10/17 10:41	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	0.875		0.352	0.358	5.00	0.493	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13831 EB-1

Lab Sample ID: 400-139458-14

Date Collected: 06/14/17 17:28

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0857		0.0645	0.0650	1.00	0.0799	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.303	U	0.221	0.223	1.00	0.464	pCi/L	06/28/17 08:02	07/10/17 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					06/28/17 08:02	07/10/17 10:41	1
Y Carrier	86.0		40 - 110					06/28/17 08:02	07/10/17 10:41	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	-0.217	U	0.230	0.232	5.00	0.464	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13832 MW-3D

Lab Sample ID: 400-139458-15

Date Collected: 06/12/17 12:56

Matrix: Water

Date Received: 06/20/17 16:00

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		0.127	0.129	1.00	0.168	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.365	U	0.346	0.348	1.00	0.559	pCi/L	06/28/17 08:02	07/10/17 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					06/28/17 08:02	07/10/17 10:42	1
Y Carrier	79.3		40 - 110					06/28/17 08:02	07/10/17 10:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.589		0.369	0.371	5.00	0.559	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13833 MW-3S

Lab Sample ID: 400-139458-16

Date Collected: 06/12/17 14:03

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170		0.0941	0.0954	1.00	0.0972	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475	U	0.329	0.332	1.00	0.511	pCi/L	06/28/17 08:02	07/10/17 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					06/28/17 08:02	07/10/17 10:42	1
Y Carrier	83.7		40 - 110					06/28/17 08:02	07/10/17 10:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.645		0.343	0.346	5.00	0.511	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13834 MW-4

Lab Sample ID: 400-139458-17

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 16:00

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		0.0966	0.0977	1.00	0.106	pCi/L	06/28/17 07:38	07/20/17 06:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					06/28/17 07:38	07/20/17 06:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.433	U	0.327	0.330	1.00	0.512	pCi/L	06/28/17 08:02	07/10/17 10:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					06/28/17 08:02	07/10/17 10:37	1
Y Carrier	80.4		40 - 110					06/28/17 08:02	07/10/17 10:37	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	0.600		0.341	0.344	5.00	0.512	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13835 MW-4 DUP

Lab Sample ID: 400-139458-18

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0180	U	0.0711	0.0711	1.00	0.151	pCi/L	06/28/17 07:38	07/20/17 06:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					06/28/17 07:38	07/20/17 06:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00869	U	0.259	0.259	1.00	0.469	pCi/L	06/28/17 08:02	07/10/17 10:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					06/28/17 08:02	07/10/17 10:37	1
Y Carrier	84.5		40 - 110					06/28/17 08:02	07/10/17 10:37	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	-0.00932	U	0.269	0.269	5.00	0.469	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13836 FB-1

Lab Sample ID: 400-139458-19

Date Collected: 06/12/17 16:15

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0993	U	0.0761	0.0766	1.00	0.106	pCi/L	06/28/17 07:59	07/20/17 06:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/28/17 07:59	07/20/17 06:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.118	U	0.336	0.336	1.00	0.609	pCi/L	06/28/17 08:02	07/10/17 10:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					06/28/17 08:02	07/10/17 10:37	1
Y Carrier	84.9		40 - 110					06/28/17 08:02	07/10/17 10:37	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	-0.0189	U	0.344	0.345	5.00	0.609	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13837 MW-6

Lab Sample ID: 400-139458-20

Date Collected: 06/12/17 17:00

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0370	U	0.0562	0.0563	1.00	0.0973	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					06/28/17 08:33	07/20/17 08:54	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		0.271	0.274	1.00	0.401	pCi/L	06/28/17 09:33	07/11/17 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					06/28/17 09:33	07/11/17 12:04	1
Y Carrier	81.9		40 - 110					06/28/17 09:33	07/11/17 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.506		0.277	0.280	5.00	0.401	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13838 MW-7S

Lab Sample ID: 400-139458-21

Date Collected: 06/13/17 10:20

Matrix: Water

Date Received: 06/20/17 16:00

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		0.0822	0.0827	1.00	0.105	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					06/28/17 08:33	07/20/17 08:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.374	U	0.295	0.297	1.00	0.465	pCi/L	06/28/17 09:33	07/11/17 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					06/28/17 09:33	07/11/17 12:04	1
Y Carrier	87.1		40 - 110					06/28/17 09:33	07/11/17 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.480		0.306	0.308	5.00	0.465	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13839 MW-7D

Lab Sample ID: 400-139458-22

Date Collected: 06/13/17 11:20

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0835	U	0.0694	0.0698	1.00	0.0893	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					06/28/17 08:33	07/20/17 08:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0690	U	0.233	0.233	1.00	0.409	pCi/L	06/28/17 09:33	07/11/17 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					06/28/17 09:33	07/11/17 12:04	1
Y Carrier	84.1		40 - 110					06/28/17 09:33	07/11/17 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.152	U	0.243	0.243	5.00	0.409	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13840 MW-8S

Lab Sample ID: 400-139458-23

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0945		0.0736	0.0741	1.00	0.0942	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					06/28/17 08:33	07/20/17 08:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.154	U	0.276	0.276	1.00	0.471	pCi/L	06/28/17 09:33	07/11/17 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					06/28/17 09:33	07/11/17 12:05	1
Y Carrier	78.1		40 - 110					06/28/17 09:33	07/11/17 12:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.248	U	0.286	0.286	5.00	0.471	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13841 MW-8S DUP

Lab Sample ID: 400-139458-24

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130		0.0849	0.0857	1.00	0.102	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					06/28/17 08:33	07/20/17 08:54	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	0.289	0.289	1.00	0.493	pCi/L	06/28/17 09:33	07/11/17 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					06/28/17 09:33	07/11/17 12:04	1
Y Carrier	84.9		40 - 110					06/28/17 09:33	07/11/17 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.277	U	0.301	0.302	5.00	0.493	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13842 MW-8D

Lab Sample ID: 400-139458-25

Date Collected: 06/13/17 13:42

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0626	U	0.0605	0.0607	1.00	0.0861	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					06/28/17 08:33	07/20/17 08:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.482		0.309	0.312	1.00	0.476	pCi/L	06/28/17 09:33	07/11/17 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					06/28/17 09:33	07/11/17 12:04	1
Y Carrier	89.7		40 - 110					06/28/17 09:33	07/11/17 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.544		0.315	0.318	5.00	0.476	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13843 MW-9D

Lab Sample ID: 400-139458-26

Date Collected: 06/13/17 15:00

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.126	U	0.114	0.114	1.00	0.175	pCi/L	06/28/17 08:33	07/20/17 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					06/28/17 08:33	07/20/17 08:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.702		0.337	0.343	1.00	0.483	pCi/L	06/28/17 09:33	07/11/17 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					06/28/17 09:33	07/11/17 12:05	1
Y Carrier	80.7		40 - 110					06/28/17 09:33	07/11/17 12:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.828		0.355	0.361	5.00	0.483	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13844 MW-9S

Lab Sample ID: 400-139458-27

Date Collected: 06/14/17 09:34

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0443	U	0.0615	0.0616	1.00	0.103	pCi/L	06/28/17 08:33	07/20/17 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					06/28/17 08:33	07/20/17 08:55	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	0.361	0.361	1.00	0.604	pCi/L	06/28/17 09:33	07/11/17 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					06/28/17 09:33	07/11/17 12:05	1
Y Carrier	86.7		40 - 110					06/28/17 09:33	07/11/17 12:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.285	U	0.366	0.367	5.00	0.604	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13845 FB-2

Lab Sample ID: 400-139458-28

Date Collected: 06/14/17 10:40

Matrix: Water

Date Received: 06/20/17 16:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0149	U	0.0533	0.0533	1.00	0.111	pCi/L	06/28/17 08:33	07/20/17 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					06/28/17 08:33	07/20/17 08:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0402	U	0.300	0.300	1.00	0.530	pCi/L	06/28/17 09:33	07/11/17 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					06/28/17 09:33	07/11/17 12:05	1
Y Carrier	86.0		40 - 110					06/28/17 09:33	07/11/17 12:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0552	U	0.304	0.304	5.00	0.530	pCi/L		07/21/17 17:05	1

Client Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13846 MW-12

Lab Sample ID: 400-139458-29

Date Collected: 06/14/17 11:23

Matrix: Water

Date Received: 06/20/17 16:00

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		0.114	0.116	1.00	0.157	pCi/L	06/28/17 08:33	07/20/17 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					06/28/17 08:33	07/20/17 08:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.559		0.284	0.288	1.00	0.413	pCi/L	06/28/17 09:33	07/11/17 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					06/28/17 09:33	07/11/17 12:05	1
Y Carrier	91.2		40 - 110					06/28/17 09:33	07/11/17 12:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.746		0.306	0.310	5.00	0.413	pCi/L		07/21/17 17:05	1

Definitions/Glossary

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

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 Miller

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13818 PZ-5

Lab Sample ID: 400-139458-1

Date Collected: 06/12/17 12:26

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:43	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13819 MW-5

Lab Sample ID: 400-139458-2

Date Collected: 06/12/17 13:46

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:43	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13820 MW-15

Lab Sample ID: 400-139458-3

Date Collected: 06/12/17 15:20

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13821 MW-16

Lab Sample ID: 400-139458-4

Date Collected: 06/12/17 17:09

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13822 MW-10

Lab Sample ID: 400-139458-5

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13823 MW-10 DUP

Lab Sample ID: 400-139458-6

Date Collected: 06/13/17 09:17

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13824 MW-13S

Lab Sample ID: 400-139458-7

Date Collected: 06/13/17 10:57

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13825 MW-13D

Lab Sample ID: 400-139458-8

Date Collected: 06/13/17 12:46

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13826 MW-14

Lab Sample ID: 400-139458-9

Date Collected: 06/13/17 14:14

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:44	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13827 MW-11

Lab Sample ID: 400-139458-10

Date Collected: 06/14/17 11:12

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13828 FB-3

Lab Sample ID: 400-139458-11

Date Collected: 06/14/17 11:50

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13829 MW-1

Lab Sample ID: 400-139458-12

Date Collected: 06/14/17 14:55

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13830 MW-2

Lab Sample ID: 400-139458-13

Date Collected: 06/14/17 16:38

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13831 EB-1

Lab Sample ID: 400-139458-14

Date Collected: 06/14/17 17:28

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13832 MW-3D

Lab Sample ID: 400-139458-15

Date Collected: 06/12/17 12:56

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:42	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13833 MW-3S

Lab Sample ID: 400-139458-16

Date Collected: 06/12/17 14:03

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316703	07/10/17 10:42	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13834 MW-4

Lab Sample ID: 400-139458-17

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 06:45	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316704	07/10/17 10:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13835 MW-4 DUP

Lab Sample ID: 400-139458-18

Date Collected: 06/12/17 15:08

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:38	LDE	TAL SL
Total/NA	Analysis	9315		1	318347	07/20/17 06:46	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316704	07/10/17 10:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13836 FB-1

Lab Sample ID: 400-139458-19

Date Collected: 06/12/17 16:15

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315561	06/28/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	318347	07/20/17 06:46	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315565	06/28/17 08:02	LDE	TAL SL
Total/NA	Analysis	9320		1	316704	07/10/17 10:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13837 MW-6

Lab Sample ID: 400-139458-20

Date Collected: 06/12/17 17:00

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:04	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13838 MW-7S

Lab Sample ID: 400-139458-21

Date Collected: 06/13/17 10:20

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:04	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13839 MW-7D

Lab Sample ID: 400-139458-22

Date Collected: 06/13/17 11:20

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:04	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13840 MW-8S

Lab Sample ID: 400-139458-23

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:05	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13841 MW-8S DUP

Lab Sample ID: 400-139458-24

Date Collected: 06/13/17 12:36

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:04	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Client Sample ID: AX13842 MW-8D

Lab Sample ID: 400-139458-25

Date Collected: 06/13/17 13:42

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:04	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13843 MW-9D

Lab Sample ID: 400-139458-26

Date Collected: 06/13/17 15:00

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:54	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:05	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13844 MW-9S

Lab Sample ID: 400-139458-27

Date Collected: 06/14/17 09:34

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:55	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:05	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Client Sample ID: AX13845 FB-2

Lab Sample ID: 400-139458-28

Date Collected: 06/14/17 10:40

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318349	07/20/17 08:55	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:05	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	RTM	TAL SL

Lab Chronicle

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

TestAmerica Job ID: 400-139458-1
SDG: Miller Ash Pond (8)

Client Sample ID: AX13846 MW-12

Lab Sample ID: 400-139458-29

Date Collected: 06/14/17 11:23

Matrix: Water

Date Received: 06/20/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			315570	06/28/17 08:33	LDE	TAL SL
Total/NA	Analysis	9315		1	318347	07/20/17 08:55	ALD	TAL SL
Total/NA	Prep	PrecSep_0			315644	06/28/17 09:33	LDE	TAL SL
Total/NA	Analysis	9320		1	316809	07/11/17 12:05	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	318694	07/21/17 17:05	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 Miller

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Rad

Prep Batch: 315561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139458-1	AX13818 PZ-5	Total/NA	Water	PrecSep-21	
400-139458-2	AX13819 MW-5	Total/NA	Water	PrecSep-21	
400-139458-3	AX13820 MW-15	Total/NA	Water	PrecSep-21	
400-139458-4	AX13821 MW-16	Total/NA	Water	PrecSep-21	
400-139458-5	AX13822 MW-10	Total/NA	Water	PrecSep-21	
400-139458-6	AX13823 MW-10 DUP	Total/NA	Water	PrecSep-21	
400-139458-7	AX13824 MW-13S	Total/NA	Water	PrecSep-21	
400-139458-8	AX13825 MW-13D	Total/NA	Water	PrecSep-21	
400-139458-9	AX13826 MW-14	Total/NA	Water	PrecSep-21	
400-139458-10	AX13827 MW-11	Total/NA	Water	PrecSep-21	
400-139458-11	AX13828 FB-3	Total/NA	Water	PrecSep-21	
400-139458-12	AX13829 MW-1	Total/NA	Water	PrecSep-21	
400-139458-13	AX13830 MW-2	Total/NA	Water	PrecSep-21	
400-139458-14	AX13831 EB-1	Total/NA	Water	PrecSep-21	
400-139458-15	AX13832 MW-3D	Total/NA	Water	PrecSep-21	
400-139458-16	AX13833 MW-3S	Total/NA	Water	PrecSep-21	
400-139458-17	AX13834 MW-4	Total/NA	Water	PrecSep-21	
400-139458-18	AX13835 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-139458-19	AX13836 FB-1	Total/NA	Water	PrecSep-21	
MB 160-315561/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-315561/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-139458-2 DU	AX13819 MW-5	Total/NA	Water	PrecSep-21	

Prep Batch: 315565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139458-1	AX13818 PZ-5	Total/NA	Water	PrecSep_0	
400-139458-2	AX13819 MW-5	Total/NA	Water	PrecSep_0	
400-139458-3	AX13820 MW-15	Total/NA	Water	PrecSep_0	
400-139458-4	AX13821 MW-16	Total/NA	Water	PrecSep_0	
400-139458-5	AX13822 MW-10	Total/NA	Water	PrecSep_0	
400-139458-6	AX13823 MW-10 DUP	Total/NA	Water	PrecSep_0	
400-139458-7	AX13824 MW-13S	Total/NA	Water	PrecSep_0	
400-139458-8	AX13825 MW-13D	Total/NA	Water	PrecSep_0	
400-139458-9	AX13826 MW-14	Total/NA	Water	PrecSep_0	
400-139458-10	AX13827 MW-11	Total/NA	Water	PrecSep_0	
400-139458-11	AX13828 FB-3	Total/NA	Water	PrecSep_0	
400-139458-12	AX13829 MW-1	Total/NA	Water	PrecSep_0	
400-139458-13	AX13830 MW-2	Total/NA	Water	PrecSep_0	
400-139458-14	AX13831 EB-1	Total/NA	Water	PrecSep_0	
400-139458-15	AX13832 MW-3D	Total/NA	Water	PrecSep_0	
400-139458-16	AX13833 MW-3S	Total/NA	Water	PrecSep_0	
400-139458-17	AX13834 MW-4	Total/NA	Water	PrecSep_0	
400-139458-18	AX13835 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-139458-19	AX13836 FB-1	Total/NA	Water	PrecSep_0	
MB 160-315565/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-315565/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-139458-2 DU	AX13819 MW-5	Total/NA	Water	PrecSep_0	

Prep Batch: 315570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139458-20	AX13837 MW-6	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Rad (Continued)

Prep Batch: 315570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139458-21	AX13838 MW-7S	Total/NA	Water	PrecSep-21	
400-139458-22	AX13839 MW-7D	Total/NA	Water	PrecSep-21	
400-139458-23	AX13840 MW-8S	Total/NA	Water	PrecSep-21	
400-139458-24	AX13841 MW-8S DUP	Total/NA	Water	PrecSep-21	
400-139458-25	AX13842 MW-8D	Total/NA	Water	PrecSep-21	
400-139458-26	AX13843 MW-9D	Total/NA	Water	PrecSep-21	
400-139458-27	AX13844 MW-9S	Total/NA	Water	PrecSep-21	
400-139458-28	AX13845 FB-2	Total/NA	Water	PrecSep-21	
400-139458-29	AX13846 MW-12	Total/NA	Water	PrecSep-21	
MB 160-315570/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-315570/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-139458-20 DU	AX13837 MW-6	Total/NA	Water	PrecSep-21	

Prep Batch: 315644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139458-20	AX13837 MW-6	Total/NA	Water	PrecSep_0	
400-139458-21	AX13838 MW-7S	Total/NA	Water	PrecSep_0	
400-139458-22	AX13839 MW-7D	Total/NA	Water	PrecSep_0	
400-139458-23	AX13840 MW-8S	Total/NA	Water	PrecSep_0	
400-139458-24	AX13841 MW-8S DUP	Total/NA	Water	PrecSep_0	
400-139458-25	AX13842 MW-8D	Total/NA	Water	PrecSep_0	
400-139458-26	AX13843 MW-9D	Total/NA	Water	PrecSep_0	
400-139458-27	AX13844 MW-9S	Total/NA	Water	PrecSep_0	
400-139458-28	AX13845 FB-2	Total/NA	Water	PrecSep_0	
400-139458-29	AX13846 MW-12	Total/NA	Water	PrecSep_0	
MB 160-315644/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-315644/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-139458-20 DU	AX13837 MW-6	Total/NA	Water	PrecSep_0	

QC Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-315561/1-A
Matrix: Water
Analysis Batch: 318349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315561

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02979	U	0.0558	0.0559	1.00	0.101	pCi/L	06/28/17 07:38	07/20/17 06:43	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	94.4		40 - 110	06/28/17 07:38	07/20/17 06:43	1				

Lab Sample ID: LCS 160-315561/2-A
Matrix: Water
Analysis Batch: 318349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315561

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	14.33		1.48	1.00	0.0924	pCi/L	95	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	93.8		40 - 110	06/28/17 07:38	07/20/17 06:43	1			

Lab Sample ID: 400-139458-2 DU
Matrix: Water
Analysis Batch: 318349

Client Sample ID: AX13819 MW-5
Prep Type: Total/NA
Prep Batch: 315561

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0238	U	0.1117		0.0773	1.00	0.0953	pCi/L	0.68	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	92.3		40 - 110	06/28/17 07:38	07/20/17 06:43	1				

Lab Sample ID: MB 160-315570/1-A
Matrix: Water
Analysis Batch: 318349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315570

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02269	U	0.0578	0.0578	1.00	0.111	pCi/L	06/28/17 08:33	07/20/17 08:51	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	87.6		40 - 110	06/28/17 08:33	07/20/17 08:51	1				

Lab Sample ID: LCS 160-315570/2-A
Matrix: Water
Analysis Batch: 318349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315570

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.83		1.44	1.00	0.0969	pCi/L	91	68 - 137

QC Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-315570/2-A
Matrix: Water
Analysis Batch: 318349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315570

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.4		40 - 110

Lab Sample ID: 400-139458-20 DU
Matrix: Water
Analysis Batch: 318349

Client Sample ID: AX13837 MW-6
Prep Type: Total/NA
Prep Batch: 315570

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0370	U	0.02750	U	0.0513	1.00	0.0944	pCi/L	0.09	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	84.7		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-315565/1-A
Matrix: Water
Analysis Batch: 316703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315565

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.3877	U	0.264	0.266	1.00	0.538	pCi/L	06/28/17 08:02	07/10/17 10:39	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110	06/28/17 08:02	07/10/17 10:39	1
Y Carrier	84.5		40 - 110	06/28/17 08:02	07/10/17 10:39	1

Lab Sample ID: LCS 160-315565/2-A
Matrix: Water
Analysis Batch: 316703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315565

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	17.6	21.02		2.22	1.00	0.474	pCi/L	119	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.8		40 - 110
Y Carrier	87.9		40 - 110

Lab Sample ID: 400-139458-2 DU
Matrix: Water
Analysis Batch: 316703

Client Sample ID: AX13819 MW-5
Prep Type: Total/NA
Prep Batch: 315565

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.329	U	0.7004		0.376	1.00	0.552	pCi/L	0.58	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-139458-2 DU
Matrix: Water
Analysis Batch: 316703

Client Sample ID: AX13819 MW-5
Prep Type: Total/NA
Prep Batch: 315565

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.3		40 - 110
Y Carrier	80.7		40 - 110

Lab Sample ID: MB 160-315644/1-A
Matrix: Water
Analysis Batch: 316809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315644

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08742	U	0.266	0.266	1.00	0.463	pCi/L	06/28/17 09:33	07/11/17 12:02	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110	06/28/17 09:33	07/11/17 12:02	1
Y Carrier	86.0		40 - 110	06/28/17 09:33	07/11/17 12:02	1

Lab Sample ID: LCS 160-315644/2-A
Matrix: Water
Analysis Batch: 316809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315644

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	17.6	19.11		2.04	1.00	0.403	pCi/L	109	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.4		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: 400-139458-20 DU
Matrix: Water
Analysis Batch: 316809

Client Sample ID: AX13837 MW-6
Prep Type: Total/NA
Prep Batch: 315644

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.469		0.2744	U	0.291	1.00	0.473	pCi/L	0.34	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	84.7		40 - 110
Y Carrier	83.7		40 - 110

QC Sample Results

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-139458-2 DU
Matrix: Water
Analysis Batch: 318694

Client Sample ID: AX13819 MW-5
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	0.353	U	0.8121		0.383	5.00	0.552	pCi/L	0.70	

Lab Sample ID: 400-139458-20 DU
Matrix: Water
Analysis Batch: 318694

Client Sample ID: AX13837 MW-6
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	0.506		0.3019	U	0.295	5.00	0.473	pCi/L	0.35	

Chain of Custody Record



400-139458 COC

Client Information		Sample: Jason Rous		Lab P/N: Whitmire, Chyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Sarah Copeland		Phone:		E-Mail: chyenne.whitmire@testamericainc.com	Page: Page 1 of 3	Job #: 400-139458
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: Miller Ash Pond (8)						
Analysis Requested						
Due Date Requested:			Total Number of Containers			
TAT Requested (days): Routine			9315_Ra226_9320_Ra228_Ra226Ra228_GFPc			
PO #:			Field Filtered Sample (Yes or No)			
WO #:			Perform MS/MSD (Yes or No)			
Project #:			D			
SSOW#:			9315_Ra226_9320_Ra228_Ra226Ra228_GFPc			
Sample Identification						
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=Air)	Preservation Code	Special Instructions/Note
AX13818	6/12/17	1226	G	Water	G	PZ-5
AX13819	6/12/17	1346	G	Water	G	MW-5
AX13820	6/12/17	1520	G	Water	G	MW-15
AX13821	6/12/17	1709	G	Water	G	MW-16
AX13822	6/13/17	0917	G	Water	G	MW-10
AX13823	6/13/17	0917	G	Water	G	MW-10 Dup (Sample Duplicate)
AX13824	6/13/17	1057	G	Water	G	MW-13S
AX13825	6/13/17	1246	G	Water	G	MW-13D
AX13826	6/13/17	1414	G	Water	G	MW-14
AX13827	6/14/17	1112	G	Water	G	MW-11
AX13828	6/14/17	1150	G	Water	G	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: I, II, III, IV, Other (specify)						
<input type="checkbox"/> Empty Kit Relinquished by: _____ Date: _____ <input type="checkbox"/> Relinquished by: Sarah Copeland Date/Time: 06/19/2017, 900 <input type="checkbox"/> Relinquished by: _____ Date/Time: _____ <input type="checkbox"/> Relinquished by: _____ Date/Time: _____ <input type="checkbox"/> Relinquished by: _____ Date/Time: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:						
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: 6/19/17 Received by: [Signature] Company: APC Date/Time: _____ Received by: _____ Company: _____ Date/Time: _____ Received by: _____ Company: _____						



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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: Jason Rouss/ Ben Rothschild		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		Phone:		E-Mail: cheyenne.whitmire@testamericainc.com		Page 2 of 3		Job #: 400-130458	
Company: Alabama Power General Test Laboratory		Address: 744 County Rd 87 GSC #8		City: Callera		State, Zip: AL, 35040		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify) Other:	
Phone: 205-664-6121 (Tel)		PO #:		WO #:		Project #: 40007143		Total Number of Containers	
Email: sgcopelia@southernco.com		SSOW#:		Site: Miller Ash Pond (8)		Due Date Requested:		Analysis Requested	
TAT Requested (days): Routine		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, S-solid, O-wastewater, BT=TISSUE, A-Air)	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
AX13829		6/14/17		1455		G		Water	
AX13830		6/14/17		1638		G		Water	
AX13831		6/14/17		1728		G		Water	
AX13832		6/12/17		1256		G		Water	
AX13833		6/12/17		1403		G		Water	
AX13834		6/12/17		1508		G		Water	
AX13835		6/12/17		1508		G		Water	
AX13836		6/12/17		1615		G		Water	
AX13837		6/12/17		1700		G		Water	
AX13838		6/13/17		1020		G		Water	
AX13839		6/13/17		1120		G		Water	
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, 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									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by:		Date/Time: 06/19/2017, 900		Date:		Time:		Method of Shipment:	
Relinquished by: Sarah Copeland		Company: APC		Company: APC		Company: APC		Company: APC	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					
△ Yes △ No									



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

Chain of Custody Record



Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1	
Client Contact: Sarah Copeland		E-Mail: cheyenne.whitmire@testamericainc.com		Page 3 of 3		Job #: 400-130458	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested			
Address: 744 County Rd 87 GSC #8		TAT Requested (days): Routine					
City: Callera		PO #:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 L - EDTA Z - other (specify) Other:			
State, Zip: AL, 35040		IWO #:					
Phone: 205-664-6121(Tel)		Project #:		Total Number of containers			
Email: sgcopela@southernco.com		40007143					
CCR		SSOW#:		Special Instructions/Note:			
Site: Miller Ash Pond (8)							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (If water, specify for On-site/Off-site, EPA-Tissue, AAR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315 Ra226, 9320 Ra228, Ra228, Ra228, Ra228, GPPC
AX13840	6/13/17	1236	G	Water	X	X	MW-8S
AX13841	6/13/17	1236	G	Water	X	X	MW-8S Dup (Sample Duplicate)
AX13842	6/13/17	1342	G	Water	X	X	MW-8D
AX13843	6/13/17	1500	G	Water	X	X	MW-9D
AX13844	6/14/17	0934	G	Water	X	X	MW-9S
AX13845	6/14/17	1040	G	Water	X	X	FB-2 (Field Blank)
AX13846	6/14/17	1123	G	Water	X	X	MW-12
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, III, IV, Other (specify)							
Empty Kit Relinquished by:		Date:		Time:			
Relinquished by: Sarah Copeland		Date/Time: 06/19/2017: 900		Method of Shipment:			
Relinquished by:		Date/Time:		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by:		Date/Time:		Special Instructions/QC Requirements:			
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: 400-139458-1
SDG Number: Miller Ash Pond (8)

Login Number: 139458

List Number: 1

Creator: Siddoway, Benjamin

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 Miller

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

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	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
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	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17 *
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-17 *
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
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
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	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-18
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-18
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17 *
New Jersey	NELAP	2	MO002	06-30-18
New York	NELAP	2	11616	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

TestAmerica Job ID: 400-139458-1
 SDG: Miller Ash Pond (8)

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
North Dakota	State Program	8	R207	06-30-17 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17 *
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17 *
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17 *
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-17 *
West Virginia DEP	State Program	3	381	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.





Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 06/15/2017 08:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Jason Rouss	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (1L): Radiological		
Comments	Radium duplicate collected with MW-5 There is no temperature preservation requirement for Radium.		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	06/12/2017	12:26	1	Groundwater		AX13818
MW-5	06/12/2017	13:46	3	Groundwater		AX13819
MW-15	06/12/2017	15:20	1	Groundwater		AX13820
MW-16	06/12/2017	17:09	1	Groundwater		AX13821
MW-10	06/13/2017	09:17	1	Groundwater		AX13822
MW-10 Dup	06/13/2017	09:17	1	Sample Duplicate		AX13823
MW-13S	06/13/2017	10:57	1	Groundwater		AX13824
MW-13D	06/13/2017	12:46	1	Groundwater		AX13825
MW-14	06/13/2017	14:14	1	Groundwater		AX13826
MW-11	06/14/2017	11:12	1	Groundwater		AX13827
FB-3	06/14/2017	11:50	1	Field Blank		AX13828
MW-1	06/14/2017	14:55	1	Groundwater		AX13829
MW-2	06/14/2017	16:38	1	Groundwater		AX13830
EB-1	06/14/2017	17:28	1	Equipment Blank		AX13831

Relinquished By	Received By	Date/Time
	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southernmco.com, c=US Date: 2017.06.15 09:10:39 -05'00'</small>	06/15/2017 09:10

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
		Thermometer ID
		pH Strip ID
		NA
		NA
		5881-30147-10-1



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 06/15/2017 09:30

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Ben Rothschild"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (1L): Radiological"/>		
Comments	<input type="text" value="Radium duplicate collected at MW-6
There is no temperature preservation requirement for Radium.
Sample dates were submitted incorrectly and have been fixed."/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	06/12/2017	12:56	1	Groundwater		AX13832
MW-3S	06/12/2017	14:03	1	Groundwater		AX13833
MW-4	06/12/2017	15:08	1	Groundwater		AX13834
MW-4 DUP	06/12/2017	15:08	1	Sample Duplicate		AX13835
FB-1	06/12/2017	16:15	1	Field Blank		AX13836
MW-6	06/12/2017	17:00	3	Groundwater		AX13837
MW-7S	06/13/2017	10:20	1	Groundwater		AX13838
MW-7D	06/13/2017	11:20	1	Groundwater		AX13839
MW-8S	06/13/2017	12:36	1	Groundwater		AX13840
MW-8S DUP	06/13/2017	12:36	1	Sample Duplicate		AX13841
MW-8D	06/13/2017	13:42	1	Groundwater		AX13842
MW-9D	06/13/2017	15:00	1	Groundwater		AX13843
MW-9S	06/14/2017	09:34	1	Groundwater		AX13844
FB-2	06/14/2017	10:40	1	Field Blank		AX13845
MW-12	06/14/2017	11:23	1	Groundwater		AX13846

Relinquished By	Received By	Date/Time
<i>Ben Rothschild</i>	Sarah Copeland <small>Digitally signed by Sarah Copeland DN: cn=Sarah Copeland, o.ou, email=sgcopela@southerncco.com, c=US Date: 2017.06.15 09:13:33 -0500</small>	06/15/2017 09:13

SmarTroll ID	<input type="text" value="5151-26193-1-1"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20010-2-2"/>	Cooler Temp
		<input type="text" value="NA"/>
		Thermometer ID
		<input type="text" value="NA"/>
		pH Strip ID
		<input type="text" value="5881-30147-10-1"/>

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

 Alabama Power



Sample Group : WMWMILAP_1117

Project/Site : Miller Ash Pond
Quinton, AL 35130

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:

Supervision:



Anions

Miller Ash Pond

WMWMILAP_1117

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

**Job Narrative
400-143786-1
General Chemistry**

Method(s) SM 4500 Cl- E: The matrix spike duplicate (MSD) recovery for analytical batch 369871 was 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 369779 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 369941 were outside control limits. Samples had to be diluted to bring them within reporting range, and spike got diluted as well. 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: AX21911 PZ-5 (400-143786-1), AX21912 MW-5 (400-143786-2), AX21913 MW-6 (400-143786-3), AX21914 MW-7D (400-143786-4), AX21915 MW-7D DUP (400-143786-5), AX21916 MW-7S (400-143786-6), AX21918 MW-8D (400-143786-8), AX21918 MW-8D (400-143786-8[MS]), AX21918 MW-8D (400-143786-8[MSD]), AX21919 MW-8S (400-143786-9), (400-143786-A-3 MS), (400-143786-A-3 MSD), (400-143786-A-5 DU). AX21920 MW-9D (400-143786-10), AX21921 MW-9S (400-143786-11), AX21922 MW-9S DUP (400-143786-12), AX21923 MW-13S (400-143786-13), AX21924 MW-13D (400-143786-14), AX21926 MW-14 (400-143786-16), AX21927 MW-16 (400-143786-17), AX21928 MW-15 (400-143786-18), AX22241 MW-1 (400-143786-19), AX22242 MW-11 (400-143786-20), AX22243 MW-2 (400-143786-21), AX22244 MW-3D (400-143786-22), AX22245 MW-3S (400-143786-23), AX22246 MW-4 (400-143786-24), AX22247 MW-4 DUP (400-143786-25), AX22249 MW-12 (400-143786-27), AX22250 MW-10 (400-143786-28), AX22250 MW-10 (400-143786-28[MS]), AX22250 MW-10 (400-143786-28[MSD]), (400-143786-A-11 MS), (400-143786-A-11 MSD), (400-143786-A-12 DU) and (400-143786-A-25 DU). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 370072 were outside control limits. Parent sample was diluted to bring result within calibration range. Not done for the MS/MSD. 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 370190 were outside control limits. Parent sample and MS/MSD had to be diluted to bring results into calibration range. 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: AX21928 MW-15 (400-143786-18[MS]) and AX21928 MW-15 (400-143786-18[MSD]). Elevated reporting limits (RLs) are provided.



Metals ICP

Miller Ash Pond

WMWMILAP_1117

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>
AX21911	20170928K	WMWMILAP_1117
AX21912	20170928K	WMWMILAP_1117
AX21913	20170928K	WMWMILAP_1117
AX21914	20170928K	WMWMILAP_1117
AX21915	20170928K	WMWMILAP_1117
AX21916	20170928K	WMWMILAP_1117
AX21917	20170928K	WMWMILAP_1117
AX21918	20170928K	WMWMILAP_1117
AX21919	20170928K	WMWMILAP_1117
AX21920	20170928K	WMWMILAP_1117
AX21921	20170928AK	WMWMILAP_1117
AX21922	20170928AK	WMWMILAP_1117
AX21923	20170928AK	WMWMILAP_1117
AX21924	20170928AK	WMWMILAP_1117
AX21925	20170928AK	WMWMILAP_1117
AX21926	20170928AK	WMWMILAP_1117
AX21927	20170928AK	WMWMILAP_1117
AX21928	20170928AK	WMWMILAP_1117
AX22241	20170928AK	WMWMILAP_1117
AX22242	20170928AK	WMWMILAP_1117
AX22243	20170928BK	WMWMILAP_1117
AX22244	20170928BK	WMWMILAP_1117
AX22245	20170928BK	WMWMILAP_1117
AX22246	20170928BK	WMWMILAP_1117
AX22247	20170928BK	WMWMILAP_1117
AX22248	20170928BK	WMWMILAP_1117
AX22249	20170928BK	WMWMILAP_1117
AX22250	20170928BK	WMWMILAP_1117
AX22251	20170928BK	WMWMILAP_1117



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.
7. The following samples were revised to reflect the project MDL and RLs for Calcium: AX21912, AX21913, AX21914, AX21915, AX21916, AX21927, AX22241, AX22242, AX22243, AX22244, AX22246, AX22247, AX22249 & AX22250. No results or qualifiers were effected.

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, with the following exception:

<u>Analyte</u>	<u>Sample ID</u>
Calcium	AX22242



The concentration of the 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 dilution to compensate for potential matrix effects. The following samples were further 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>
AX21912	Calcium	x10
AX21913	Calcium	x10
AX21914	Calcium	x10
AX21915	Calcium	x10
AX21916	Calcium	x10
AX21927	Calcium	x10
AX22241	Calcium	x10
AX22242	Calcium	x10
AX22242MS	Calcium	x10
AX22242MSD	Calcium	x10
AX22243	Calcium	x10
AX22244	Calcium	x10
AX22246	Calcium	x10
AX22247	Calcium	x10
AX22249	Calcium	x10
AX22250	Calcium	x10

8. The raw data results include results corrected for dilution.



TDS

Miller Ash Pond

WMWMILAP_1117

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>
AX21911	603303	WMWMILAP_1117
AX21912	603303	WMWMILAP_1117
AX21913	603303	WMWMILAP_1117
AX21914	603303	WMWMILAP_1117
AX21915	603303	WMWMILAP_1117
AX21916	603303	WMWMILAP_1117
AX21917	603303	WMWMILAP_1117
AX21918	603303	WMWMILAP_1117
AX21919	603303	WMWMILAP_1117
AX21920	603304	WMWMILAP_1117
AX21921	603304	WMWMILAP_1117
AX21922	603304	WMWMILAP_1117
AX21923	603303	WMWMILAP_1117
AX21924	603304	WMWMILAP_1117
AX21925	603304	WMWMILAP_1117
AX21926	603304	WMWMILAP_1117
AX21927	603304	WMWMILAP_1117
AX21928	603304	WMWMILAP_1117
AX22241	603401	WMWMILAP_1117
AX22242	603402	WMWMILAP_1117
AX22243	603402	WMWMILAP_1117
AX22244	603402	WMWMILAP_1117
AX22245	603402	WMWMILAP_1117
AX22246	603420	WMWMILAP_1117
AX22247	603420	WMWMILAP_1117
AX22248	603420	WMWMILAP_1117
AX22249	603420	WMWMILAP_1117
AX22250	603420	WMWMILAP_1117
AX22251	603420	WMWMILAP_1117



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 0.5 mg 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 2.5 mg and 200 mg residue with the exception of AX21917, AX21925, AX22248 and AX22251 which did not meet the 2.5 mg residue requirement.

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: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX21911

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.428	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	20.2	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	616	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	36	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	1.1	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		5	7.00	25	86	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
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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: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX21911

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20

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Laboratory certification ID: E571114

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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: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AX21911

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX21923	Solids, Dissolved	mg/L	6.00	25				329	50.0	40 to 60			0.152 5

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Expiration: June 30, 2018

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CC:

Alabama Power General Test Laboratory
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 FAX (205) 257-1654

Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX21912

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.921	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	292	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		100	1530	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	45	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.37	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		30	42.0	150	830	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
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Alabama Power General Test Laboratory
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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX21912

Sample	Analysis	Units	MB				LFB	LFB		Rec		Prec	Limit
			Limit	Spike	MS	MSD		Limit	Rec	Limit	Prec		
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

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Alabama Power General Test Laboratory
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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AX21912

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60		0.152 5

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Certificate Of Analysis



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX21913

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.864	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	144	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		100	908	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	29	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.11	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		20	28.0	100	510	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX21913

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AX21913

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Prec	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60	0.152	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

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CC:

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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX21914

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.734	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	108	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	770	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	25	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.11	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		20	28.0	100	340	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
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

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

Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX21914

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	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, 2018

Comments: Test America, Pensacola NELAP ID: E81010
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

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



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AX21914

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60	0.152	5

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Expiration: June 30, 2018

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 FAX (205) 257-1654

Certificate Of Analysis



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7DDUP

Laboratory ID Number: AX21915

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.731	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	108	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	790	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	25	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.11	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		20	28.0	100	340	mg/L

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Expiration: June 30, 2018

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Batch QC Summary



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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7DDUP

Laboratory ID Number: AX21915

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7DDUP

Laboratory ID Number: AX21915

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
				Limit			Duplicate	LFB	Limit	Prec	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60	0.152	5

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Certificate Of Analysis



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX21916

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.697	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	81.6	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	618	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	24	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.22	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		10	14.0	50	240	mg/L

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Batch QC Summary



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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX21916

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20

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Batch QC Summary



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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AX21916

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60		0.152 5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX21917

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Expiration: June 30, 2018

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX21917

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20

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Expiration: June 30, 2018

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 18-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX21917

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60	0.152	5

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Expiration: June 30, 2018

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX21918

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	1.13	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	51.5	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	700	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	9.1	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.35	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		20	28.0	100	350	mg/L

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX21918

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AX21918

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	
				Limit				Duplicate	LFB	Limit	Prec	
AX21923	Solids, Dissolved	mg/L	6.00	25				329	50.0	40 to 60	0.152	5

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 FAX (205) 257-1654

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX21919

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	1.76	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	52.5	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	698	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	4.5	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.57	mg/L
* Sulfate, Total, by Test America	RRC	9/27/2017	SM 4500 SO4_E		20	28.0	100	310	mg/L

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Expiration: June 30, 2018

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX21919

Sample	Analysis	Units	MB				LFB			Rec		Prec	
			MB	Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	20
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AX21919

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX21923	Solids, Dissolved	mg/L	6.00	25				329	50.0	40 to 60			0.152 5

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX21920

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.716	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	66.0	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	824	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.16	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		20	28.0	100	470	mg/L

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Laboratory certification ID: E571114

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX21920

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX21920	Boron, Total	mg/L	0.00133	0.044	1.00	1.75	1.71	0.907	0.85 to 1.15	103	70 to 130	1.85	20
AX21920	Calcium, Total	mg/L	0.0138	0.22	5.00	70.7	70.9	4.96	4.25 to 5.75	93.9	70 to 130	0.280	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
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AX21920

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21926	Solids, Dissolved	mg/L	6.00	25			229	50.0	40 to 60	0.218	5

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

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX21921

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.409	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	50.7	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	664	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	7.1	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.19	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		20	28.0	100	380	mg/L

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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX21921

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AX21921

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX21926	Solids, Dissolved	mg/L	6.00	25				229	50.0	40 to 60			0.218 5

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CC:

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9SDUP

Laboratory ID Number: AX21922

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.406	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	50.5	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		50	680	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	7.3	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.18	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		20	28.0	100	380	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9SDUP

Laboratory ID Number: AX21922

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-9SDUP

Laboratory ID Number: AX21922

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec
				Limit				Duplicate	LFB	Limit	Prec
AX21926	Solids, Dissolved	mg/L	6.00	25				229	50.0	40 to 60	0.218
											5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX21923

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.108	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	15.9	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		25	328	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	10	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.11	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		10	14.0	50	120	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX21923

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AX21923

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21923	Solids, Dissolved	mg/L	6.00	25			329	50.0	40 to 60		0.152 5

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Expiration: June 30, 2018

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX21924

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	J 0.0732	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	47.3	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		25	315	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.11	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		5	7.00	25	69	mg/L

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Expiration: June 30, 2018

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX21924

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20

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Expiration: June 30, 2018

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AX21924

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21926	Solids, Dissolved	mg/L	6.00	25			229	50.0	40 to 60	0.218	5

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Expiration: June 30, 2018

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CC:

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 FAX (205) 257-1654

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX21925

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.15	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX21925

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20

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Laboratory certification ID: E571114

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Alabama Power General Test Laboratory
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 (205) 664-6032 or 6171
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX21925

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec
AX21926	Solids, Dissolved	mg/L	6.00	25				229	50.0	40 to 60			0.218 5

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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: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX21926

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.115	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	33.6	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		25	230	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	7.5	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		2	2.80	10	41	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX21926

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	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: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AX21926

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
			MB	Limit				Duplicate	LFB	Limit	Rec	Limit	Prec
AX21926	Solids, Dissolved	mg/L	6.00	25				229	50.0	40 to 60			0.218 5

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX21927

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	3.00	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	136	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		100	848	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	19	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.16	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		20	28.0	100	460	mg/L

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010
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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX21927

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AX21927

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX21926	Solids, Dissolved	mg/L	6.00	25			229	50.0	40 to 60	0.218	5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX21928

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.192	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	37.8	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/25/2017	SM 2540C		1		25	266	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	19	mg/L
* Fluoride, Total, by Test America	BAB	10/4/2017	SM 4500 F_C		1	0.032	0.10	0.12	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		5	7.00	25	72	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX21928

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 20-Sep-17

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AX21928

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Prec
AX21926	Solids, Dissolved	mg/L	6.00	25				229	50.0	40 to 60			0.218 5

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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX22241

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	J 0.0559	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	98.6	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/26/2017	SM 2540C		1		100	824	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	13	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.17	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		20	28.0	100	430	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
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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX22241

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20

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Expiration: June 30, 2018

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AX22241

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22241	Solids, Dissolved	mg/L	2.00	25			832	56.0	40 to 60	0.483	5

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Certificate Of Analysis



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX22242

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	J 0.0253	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	165	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/26/2017	SM 2540C		1		100	1140	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	6.8	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.16	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		30	42.0	150	630	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
 Recovery for Calcium is out of spec. The spike amount was less than 30% of the sample amount. AWR 10/13/17
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX22242

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22242	Boron, Total	mg/L	0.0000490	0.044	1.00	1.03	1.04	0.963	0.85 to 1.15	100	70 to 130	1.10	20
AX22242	Calcium, Total	mg/L	-0.00984	0.22	5.00	167	173	4.98	4.25 to 5.75	40.0	70 to 130	3.53	20

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

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 Recovery for Calcium is out of spec. The spike amount was less than 30% of the sample amount. AWR 10/13/17
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

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Batch QC Summary



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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 19-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AX22242

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22245	Solids, Dissolved	mg/L	2.00	25			570	56.0	40 to 60	1.89	5

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010
 Recovery for Calcium is out of spec. The spike amount was less than 30% of the sample amount. AWR 10/13/17
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

CC:

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Certificate Of Analysis



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX22243

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.148	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	235	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/26/2017	SM 2540C		1		100	2500	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	8.3	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.12	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		40	56.0	200	1400	mg/L

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Batch QC Summary



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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX22243

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	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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 FAX (205) 257-1654

Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AX22243

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22245	Solids, Dissolved	mg/L	2.00	25			570	56.0	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, 2018

Comments: Test America, Pensacola NELAP ID: E81010
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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX22244

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.505	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	211	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/26/2017	SM 2540C		1		100	1180	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	43	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.35	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		30	42.0	150	590	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
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

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



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX22244

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20

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Batch QC Summary



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To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AX22244

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22245	Solids, Dissolved	mg/L	2.00	25			570	56.0	40 to 60	1.89	5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX22245

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.188	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	3.88	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/26/2017	SM 2540C		1		50	592	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	30	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.26	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		10	14.0	50	140	mg/L

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Laboratory certification ID: E571114

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Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX22245

Sample	Analysis	Units	MB		Spike	MS	MSD	LFB	LFB		Rec		Prec
			Limit	MB					Limit	Rec	Limit	Prec	
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AX22245

Sample	Analysis	Units	MB	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec	Prec	
				Limit				Duplicate	LFB	Limit	Rec	Limit	Limit
AX22245	Solids, Dissolved	mg/L	2.00	25				570	56.0	40 to 60			1.89 5

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Expiration: June 30, 2018

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Certificate Of Analysis



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX22246

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.506	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	249	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/27/2017	SM 2540C		1		100	1270	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	45	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.31	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		30	42.0	150	710	mg/L

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Expiration: June 30, 2018

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX22246

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AX22246

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec		
							Duplicate	LFB	Limit	Limit	Prec	Limit
AX22250	Solids, Dissolved	mg/L	-14.0	25			1390	51.0	40 to 60		1.61	5

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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX22247

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	0.508	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	261	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/27/2017	SM 2540C		1		100	1230	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	45	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.31	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		30	42.0	150	700	mg/L

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX22247

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20

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Expiration: June 30, 2018

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AX22247

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22250	Solids, Dissolved	mg/L	-14.0	25			1390	51.0	40 to 60	1.61	5

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX22248

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/27/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX22248

Sample	Analysis	Units	MB	MB				LFB		Rec			Prec
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 20-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AX22248

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22250	Solids, Dissolved	mg/L	-14.0	25			1390	51.0	40 to 60	1.61	5

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Expiration: June 30, 2018

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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX22249

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	3.76	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	171	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/27/2017	SM 2540C		1		125	2030	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	7.7	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.66	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		35	49.0	180	1100	mg/L

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX22249

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20

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Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AX22249

Sample	Analysis	Units	MB	Limit	Spike	LFM	Sample	LFB	Rec	Prec		
							Duplicate	LFB	Limit	Limit	Prec	Limit
AX22250	Solids, Dissolved	mg/L	-14.0	25			1390	51.0	40 to 60		1.61	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

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CC:

Alabama Power General Test Laboratory
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Certificate Of Analysis  **Alabama Power**

Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX22250

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	3.08	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		10	1.0	5.0	133	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/27/2017	SM 2540C		1		100	1350	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	7.7	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	0.43	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		30	42.0	150	660	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
 REVISED COPY: Calcium MDL and RL were corrected to project limits.

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



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX22250

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	20

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



Revised Copy



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AX22250

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22250	Solids, Dissolved	mg/L	-14.0	25			1390	51.0	40 to 60	1.61	5

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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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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: WMWMILAPFB
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX22251

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Boron, Total	HRG	9/28/2017	EPA 200.7		2	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	HRG	9/28/2017	EPA 200.7		2	0.10	0.5	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	9/27/2017	SM 2540C		1		25	U Not Detected	mg/L
* Chloride, Total, by Test America	JLB	9/28/2017	SM 4500 Cl_E		1	0.60	2.00	U <0.60	mg/L
* Fluoride, Total, by Test America	BAB	10/3/2017	SM 4500 F_C		1	0.032	0.10	U <0.032	mg/L
* Sulfate, Total, by Test America	RRC	9/28/2017	SM 4500 SO4_E		1	1.40	5.00	U <1.4	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: WMWMILAPFB
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX22251

Sample	Analysis	Units	MB	MB				LFB		Rec		Prec	
				Limit	Spike	MS	MSD	LFB	Limit	Rec	Limit	Prec	Limit
AX22251	Calcium, Total	mg/L	-0.0104	0.22	5.00	4.65	4.54	4.77	4.25 to 5.75	93.0	70 to 130	2.29	20
AX22251	Boron, Total	mg/L	-0.000170	0.044	1.00	0.959	0.969	0.972	0.85 to 1.15	95.9	70 to 130	1.03	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: WMWMILAPFB
 Sample Date: 21-Sep-17
 Customer ID:
 Delivery Date: 21-Sep-17

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AX22251

Sample	Analysis	Units	MB	MB	Spike	LFM	Sample	LFB	Rec	Prec	
			Limit	Limit			Duplicate	LFB	Limit	Limit	
AX22250	Solids, Dissolved	mg/L	-14.0	25			1390	51.0	40 to 60	1.61	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

Expiration: June 30, 2018

Comments: Test America, Pensacola NELAP ID: E81010

CC:

Definitions



Abbreviation	Description
DF	Dilution Factor
LFB	Lab Fortified Blank
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 09/19/2017 21:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Miller Ash Pond
Analysis Requested	Bottle 1 (500mL): Metals, Bottle 2 (250mL): Anions, Bottle 3 (500mL): TDS		
Comments	All anions outsourced to TestAmerica, Pensacola		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	09/18/2017	13:11	3	Groundwater		AX21911
MW-5	09/18/2017	14:18	3	Groundwater		AX21912
MW-6	09/18/2017	16:44	3	Groundwater		AX21913
MW-7D	09/18/2017	15:11	3	Groundwater		AX21914
MW-7DDUP	09/18/2017	15:11	3	Sample Duplicate		AX21915
MW-7S	09/18/2017	15:54	3	Groundwater		AX21916
FB-1	09/18/2017	15:32	3	Field Blank		AX21917
MW-8D	09/19/2017	09:11	3	Groundwater		AX21918
MW-8S	09/19/2017	10:28	3	Groundwater		AX21919
MW-9D	09/19/2017	11:44	3	Groundwater		AX21920
MW-9S	09/19/2017	13:09	3	Groundwater		AX21921
MW-9SDUP	09/19/2017	13:09	3	Sample Duplicate		AX21922
MW-13S	09/19/2017	14:05	3	Groundwater		AX21923
MW-13D	09/19/2017	15:06	3	Groundwater		AX21924
FB-2	09/19/2017	14:54	3	Field Blank		AX21925
MW-14	09/19/2017	15:53	3	Groundwater		AX21926
MW-16	09/19/2017	17:10	3	Groundwater		AX21927
MW-15	09/19/2017	17:56	3	Groundwater		AX21928

Relinquished By	Received By	Date/Time
	Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power Company, ou=Environmental Affairs, email=kkornegay@southernco.com, c=US Date: 2017.09.20 09:30:44 -0500</small>	09/20/2017 09:30

SmarTroll ID	5141-26150-1-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
		0.3 degrees C
		Thermometer ID
		6035-30997-2-2
		pH Strip ID
		6153-32036-10-3



Chain of Custody Groundwater

APC General Testing Laboratory
General Service Complex Building 8

- Field Complete
- Lab Complete

Lab ETA 09/21/2017 15:00

Requested Complete Date	<input type="text" value="Routine"/>	Results To	<input type="text" value="Dustin Brooks, Greg Dyer"/>
Site Representative	<input type="text" value="Jeff K. Baker"/>	Requested By	<input type="text" value="Greg Dyer"/>
Collector	<input type="text" value="Nick Pitts"/>	Location	<input type="text" value="Miller Ash Pond"/>
Analysis Requested	<input type="text" value="Bottle 1 (500 ml): Metals, Bottle 2 (500 ml): TDS, Bottle 3 (250 ml): Anions"/>		
Comments	<input type="text" value="All anions outsourced to Test America, Pensacola"/>		

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	09/19/2017	13:35	3	Groundwater		AX22241
MW-11	09/19/2017	16:20	3	Groundwater		AX22242
MW-2	09/20/2017	10:37	3	Groundwater		AX22243
MW-3D	09/20/2017	12:02	3	Groundwater		AX22244
MW-3S	09/20/2017	12:58	3	Groundwater		AX22245
MW-4	09/20/2017	13:50	3	Groundwater		AX22246
MW-4 Dup	09/20/2017	13:50	3	Sample Duplicate		AX22247
EB-1	09/20/2017	14:20	3	Equipment Blank		AX22248
MW-12	09/21/2017	09:50	3	Groundwater		AX22249
MW-10	09/21/2017	11:12	3	Groundwater		AX22250
FB-3	09/21/2017	09:37	3	Field Blank		AX22251

Relinquished By	Received By	Date/Time
	Keith Kornegay <small>Digitally signed by Keith Kornegay DN: cn=Keith Kornegay, o=Alabama Power Company, ou=Environmental Affairs, email=kkorne@southernco.com, c=US Date: 2017.09.21 16:14:37 -0500</small>	09/21/2017 16:14

SmarTroll ID	<input type="text" value="4696-23443-3-2"/>	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	<input type="text" value="3901-20010-2-2"/>	Cooler Temp
		<input type="text" value="0.3 degrees C"/>
		Thermometer ID
		<input type="text" value="6035-30997-2-2"/>
		pH Strip ID
		<input type="text" value="6153-32043-10-10"/>

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: 400-143786-1

TestAmerica Sample Delivery Group: Plant Miller Ash Pond

Client Project/Site: CCR Plant Miller

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Sarah Copeland



Authorized for release by:

10/4/2017 6:01:01 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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Job ID: 400-143786-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-143786-1

General Chemistry

Method(s) SM 4500 Cl- E: The matrix spike duplicate (MSD) recovery for analytical batch 369871 was 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 369779 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 369941 were outside control limits. Samples had to be diluted to bring them within reporting range, and spike got diluted as well. 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: AX21911 PZ-5 (400-143786-1), AX21912 MW-5 (400-143786-2), AX21913 MW-6 (400-143786-3), AX21914 MW-7D (400-143786-4), AX21915 MW-7D DUP (400-143786-5), AX21916 MW-7S (400-143786-6), AX21918 MW-8D (400-143786-8), AX21918 MW-8D (400-143786-8[MSJ]), AX21918 MW-8D (400-143786-8[MSD]), AX21919 MW-8S (400-143786-9), (400-143786-A-3 MS), (400-143786-A-3 MSD), (400-143786-A-5 DU). AX21920 MW-9D (400-143786-10), AX21921 MW-9S (400-143786-11), AX21922 MW-9S DUP (400-143786-12), AX21923 MW-13S (400-143786-13), AX21924 MW-13D (400-143786-14), AX21926 MW-14 (400-143786-16), AX21927 MW-16 (400-143786-17), AX21928 MW-15 (400-143786-18), AX22241 MW-1 (400-143786-19), AX22242 MW-11 (400-143786-20), AX22243 MW-2 (400-143786-21), AX22244 MW-3D (400-143786-22), AX22245 MW-3S (400-143786-23), AX22246 MW-4 (400-143786-24), AX22247 MW-4 DUP (400-143786-25), AX22249 MW-12 (400-143786-27), AX22250 MW-10 (400-143786-28), AX22250 MW-10 (400-143786-28[MSJ]), AX22250 MW-10 (400-143786-28[MSD]), (400-143786-A-11 MS), (400-143786-A-11 MSD), (400-143786-A-12 DU) and (400-143786-A-25 DU). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 370072 were outside control limits. Parent sample was diluted to bring result within calibration range. Not done for the MS/MSD. 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 370190 were outside control limits. Parent sample and MS/MSD had to be diluted to bring results into calibration range. 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: AX21928 MW-15 (400-143786-18[MS]) and AX21928 MW-15 (400-143786-18[MSD]). Elevated reporting limits (RLs) are provided.

Detection Summary

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

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX21911 PZ-5

Lab Sample ID: 400-143786-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	1.1		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	86		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21912 MW-5

Lab Sample ID: 400-143786-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.37		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	830		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21913 MW-6

Lab Sample ID: 400-143786-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29		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	510	F1	100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21914 MW-7D

Lab Sample ID: 400-143786-4

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	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	340		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21915 MW-7D DUP

Lab Sample ID: 400-143786-5

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	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	340		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21916 MW-7S

Lab Sample ID: 400-143786-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24		2.0	0.60	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	240		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21917 FB-1

Lab Sample ID: 400-143786-7

No Detections.

Client Sample ID: AX21918 MW-8D

Lab Sample ID: 400-143786-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.1	F1	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.35		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	350	F1	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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX21919 MW-8S

Lab Sample ID: 400-143786-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.57		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	310		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21920 MW-9D

Lab Sample ID: 400-143786-10

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	0.16		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	470		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21921 MW-9S

Lab Sample ID: 400-143786-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.1		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	380	F1	100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21922 MW-9S DUP

Lab Sample ID: 400-143786-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.18		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	380		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21923 MW-13S

Lab Sample ID: 400-143786-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		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	120		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21924 MW-13D

Lab Sample ID: 400-143786-14

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	0.11		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	69		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21925 FB-2

Lab Sample ID: 400-143786-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.15		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: AX21926 MW-14

Lab Sample ID: 400-143786-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	41		10	2.8	mg/L	2		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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX21927 MW-16

Lab Sample ID: 400-143786-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		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	460		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX21928 MW-15

Lab Sample ID: 400-143786-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		2.0	0.60	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	72	F2	25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22241 MW-1

Lab Sample ID: 400-143786-19

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	0.17		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	430		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22242 MW-11

Lab Sample ID: 400-143786-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.8		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	630		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22243 MW-2

Lab Sample ID: 400-143786-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.3		2.0	0.60	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	1400		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22244 MW-3D

Lab Sample ID: 400-143786-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	43		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.35		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	590		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22245 MW-3S

Lab Sample ID: 400-143786-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.26		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	140		50	14	mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22246 MW-4

Lab Sample ID: 400-143786-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45		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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX22246 MW-4 (Continued)

Lab Sample ID: 400-143786-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.31		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	710		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22247 MW-4 DUP

Lab Sample ID: 400-143786-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.31		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	700		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22248 EB-1

Lab Sample ID: 400-143786-26

No Detections.

Client Sample ID: AX22249 MW-12

Lab Sample ID: 400-143786-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.66		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1100		180	49	mg/L	35		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22250 MW-10

Lab Sample ID: 400-143786-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.43		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	660	F1	150	42	mg/L	30		SM 4500 SO4 E	Total/NA

Client Sample ID: AX22251 FB-3

Lab Sample ID: 400-143786-29

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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-143786-1	AX21911 PZ-5	Water	09/18/17 13:11	09/26/17 13:13
400-143786-2	AX21912 MW-5	Water	09/18/17 14:18	09/26/17 13:13
400-143786-3	AX21913 MW-6	Water	09/18/17 16:44	09/26/17 13:13
400-143786-4	AX21914 MW-7D	Water	09/18/17 15:11	09/26/17 13:13
400-143786-5	AX21915 MW-7D DUP	Water	09/18/17 15:11	09/26/17 13:13
400-143786-6	AX21916 MW-7S	Water	09/18/17 15:54	09/26/17 13:13
400-143786-7	AX21917 FB-1	Water	09/18/17 15:32	09/26/17 13:13
400-143786-8	AX21918 MW-8D	Water	09/19/17 09:11	09/26/17 13:13
400-143786-9	AX21919 MW-8S	Water	09/19/17 10:28	09/26/17 13:13
400-143786-10	AX21920 MW-9D	Water	09/19/17 11:44	09/26/17 13:13
400-143786-11	AX21921 MW-9S	Water	09/19/17 13:09	09/26/17 13:13
400-143786-12	AX21922 MW-9S DUP	Water	09/19/17 13:09	09/26/17 13:13
400-143786-13	AX21923 MW-13S	Water	09/19/17 14:05	09/26/17 13:13
400-143786-14	AX21924 MW-13D	Water	09/19/17 15:06	09/26/17 13:13
400-143786-15	AX21925 FB-2	Water	09/19/17 14:54	09/26/17 13:13
400-143786-16	AX21926 MW-14	Water	09/19/17 15:53	09/26/17 13:13
400-143786-17	AX21927 MW-16	Water	09/19/17 17:10	09/26/17 13:13
400-143786-18	AX21928 MW-15	Water	09/19/17 17:56	09/26/17 13:13
400-143786-19	AX22241 MW-1	Water	09/19/17 13:35	09/26/17 13:13
400-143786-20	AX22242 MW-11	Water	09/19/17 16:20	09/26/17 13:13
400-143786-21	AX22243 MW-2	Water	09/20/17 10:37	09/26/17 13:13
400-143786-22	AX22244 MW-3D	Water	09/20/17 12:02	09/26/17 13:13
400-143786-23	AX22245 MW-3S	Water	09/20/17 12:58	09/26/17 13:13
400-143786-24	AX22246 MW-4	Water	09/20/17 13:50	09/26/17 13:13
400-143786-25	AX22247 MW-4 DUP	Water	09/20/17 13:50	09/26/17 13:13
400-143786-26	AX22248 EB-1	Water	09/20/17 14:20	09/26/17 13:13
400-143786-27	AX22249 MW-12	Water	09/21/17 09:50	09/26/17 13:13
400-143786-28	AX22250 MW-10	Water	09/21/17 11:12	09/26/17 13:13
400-143786-29	AX22251 FB-3	Water	09/21/17 09:37	09/26/17 13:13

Client Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX21911 PZ-5

Lab Sample ID: 400-143786-1

Date Collected: 09/18/17 13:11

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36		2.0	0.60	mg/L			09/28/17 08:59	1
Fluoride	1.1		0.10	0.032	mg/L			10/03/17 14:24	1
Sulfate	86		25	7.0	mg/L			09/27/17 13:56	5

Client Sample ID: AX21912 MW-5

Lab Sample ID: 400-143786-2

Date Collected: 09/18/17 14:18

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		2.0	0.60	mg/L			09/28/17 08:59	1
Fluoride	0.37		0.10	0.032	mg/L			10/03/17 14:17	1
Sulfate	830		150	42	mg/L			09/27/17 13:29	30

Client Sample ID: AX21913 MW-6

Lab Sample ID: 400-143786-3

Date Collected: 09/18/17 16:44

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		2.0	0.60	mg/L			09/28/17 08:59	1
Fluoride	0.11		0.10	0.032	mg/L			10/03/17 14:19	1
Sulfate	510	F1	100	28	mg/L			09/27/17 13:52	20

Client Sample ID: AX21914 MW-7D

Lab Sample ID: 400-143786-4

Date Collected: 09/18/17 15:11

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	0.60	mg/L			09/28/17 08:59	1
Fluoride	0.11		0.10	0.032	mg/L			10/03/17 14:22	1
Sulfate	340		100	28	mg/L			09/27/17 13:33	20

Client Sample ID: AX21915 MW-7D DUP

Lab Sample ID: 400-143786-5

Date Collected: 09/18/17 15:11

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	0.60	mg/L			09/28/17 09:01	1
Fluoride	0.11		0.10	0.032	mg/L			10/03/17 14:13	1
Sulfate	340		100	28	mg/L			09/27/17 13:33	20

Client Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX21916 MW-7S

Date Collected: 09/18/17 15:54
 Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		2.0	0.60	mg/L			09/28/17 09:01	1
Fluoride	0.22		0.10	0.032	mg/L			10/03/17 14:26	1
Sulfate	240		50	14	mg/L			09/27/17 13:52	10

Client Sample ID: AX21917 FB-1

Date Collected: 09/18/17 15:32
 Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			09/28/17 09:01	1
Fluoride	<0.032		0.10	0.032	mg/L			10/03/17 14:28	1
Sulfate	<1.4		5.0	1.4	mg/L			09/27/17 13:01	1

Client Sample ID: AX21918 MW-8D

Date Collected: 09/19/17 09:11
 Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1	F1	2.0	0.60	mg/L			09/28/17 09:01	1
Fluoride	0.35		0.10	0.032	mg/L			10/03/17 13:49	1
Sulfate	350	F1	100	28	mg/L			09/27/17 13:29	20

Client Sample ID: AX21919 MW-8S

Date Collected: 09/19/17 10:28
 Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		2.0	0.60	mg/L			09/28/17 09:31	1
Fluoride	0.57		0.10	0.032	mg/L			10/03/17 14:30	1
Sulfate	310		100	28	mg/L			09/27/17 13:37	20

Client Sample ID: AX21920 MW-9D

Date Collected: 09/19/17 11:44
 Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-10

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			09/28/17 10:44	1
Fluoride	0.16		0.10	0.032	mg/L			10/03/17 13:55	1
Sulfate	470		100	28	mg/L			09/28/17 12:54	20

Client Sample ID: AX21921 MW-9S

Date Collected: 09/19/17 13:09
 Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-11

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.1		2.0	0.60	mg/L			09/28/17 10:44	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX21921 MW-9S

Lab Sample ID: 400-143786-11

Date Collected: 09/19/17 13:09

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.19		0.10	0.032	mg/L			10/03/17 13:57	1
Sulfate	380	F1	100	28	mg/L			09/28/17 12:54	20

Client Sample ID: AX21922 MW-9S DUP

Lab Sample ID: 400-143786-12

Date Collected: 09/19/17 13:09

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		2.0	0.60	mg/L			09/28/17 10:44	1
Fluoride	0.18		0.10	0.032	mg/L			10/03/17 15:47	1
Sulfate	380		100	28	mg/L			09/28/17 12:54	20

Client Sample ID: AX21923 MW-13S

Lab Sample ID: 400-143786-13

Date Collected: 09/19/17 14:05

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		2.0	0.60	mg/L			09/28/17 10:44	1
Fluoride	0.11		0.10	0.032	mg/L			10/03/17 13:58	1
Sulfate	120		50	14	mg/L			09/28/17 12:15	10

Client Sample ID: AX21924 MW-13D

Lab Sample ID: 400-143786-14

Date Collected: 09/19/17 15:06

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			09/28/17 10:44	1
Fluoride	0.11		0.10	0.032	mg/L			10/03/17 14:00	1
Sulfate	69		25	7.0	mg/L			09/28/17 12:19	5

Client Sample ID: AX21925 FB-2

Lab Sample ID: 400-143786-15

Date Collected: 09/19/17 14:54

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			09/28/17 10:44	1
Fluoride	0.15		0.10	0.032	mg/L			10/03/17 14:02	1
Sulfate	<1.4		5.0	1.4	mg/L			09/28/17 11:33	1

Client Sample ID: AX21926 MW-14

Lab Sample ID: 400-143786-16

Date Collected: 09/19/17 15:53

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		2.0	0.60	mg/L			09/28/17 10:44	1
Fluoride	<0.032		0.10	0.032	mg/L			10/03/17 14:05	1

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX21926 MW-14

Lab Sample ID: 400-143786-16

Date Collected: 09/19/17 15:53

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	41		10	2.8	mg/L			09/28/17 12:19	2

Client Sample ID: AX21927 MW-16

Lab Sample ID: 400-143786-17

Date Collected: 09/19/17 17:10

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		2.0	0.60	mg/L			09/28/17 10:45	1
Fluoride	0.16		0.10	0.032	mg/L			10/03/17 14:07	1
Sulfate	460		100	28	mg/L			09/28/17 12:54	20

Client Sample ID: AX21928 MW-15

Lab Sample ID: 400-143786-18

Date Collected: 09/19/17 17:56

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		2.0	0.60	mg/L			09/28/17 10:45	1
Fluoride	0.12		0.10	0.032	mg/L			10/04/17 13:24	1
Sulfate	72	F2	25	7.0	mg/L			09/28/17 12:19	5

Client Sample ID: AX22241 MW-1

Lab Sample ID: 400-143786-19

Date Collected: 09/19/17 13:35

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.0	0.60	mg/L			09/28/17 10:45	1
Fluoride	0.17		0.10	0.032	mg/L			10/03/17 15:09	1
Sulfate	430		100	28	mg/L			09/28/17 12:58	20

Client Sample ID: AX22242 MW-11

Lab Sample ID: 400-143786-20

Date Collected: 09/19/17 16:20

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.8		2.0	0.60	mg/L			09/28/17 10:47	1
Fluoride	0.16		0.10	0.032	mg/L			10/03/17 15:11	1
Sulfate	630		150	42	mg/L			09/28/17 12:58	30

Client Sample ID: AX22243 MW-2

Lab Sample ID: 400-143786-21

Date Collected: 09/20/17 10:37

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		2.0	0.60	mg/L			09/28/17 10:47	1
Fluoride	0.12		0.10	0.032	mg/L			10/03/17 15:13	1
Sulfate	1400		200	56	mg/L			09/28/17 13:40	40

TestAmerica Pensacola

Client Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX22244 MW-3D

Lab Sample ID: 400-143786-22

Date Collected: 09/20/17 12:02

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		2.0	0.60	mg/L			09/28/17 10:47	1
Fluoride	0.35		0.10	0.032	mg/L			10/03/17 15:15	1
Sulfate	590		150	42	mg/L			09/28/17 12:58	30

Client Sample ID: AX22245 MW-3S

Lab Sample ID: 400-143786-23

Date Collected: 09/20/17 12:58

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		2.0	0.60	mg/L			09/28/17 10:47	1
Fluoride	0.26		0.10	0.032	mg/L			10/03/17 15:17	1
Sulfate	140		50	14	mg/L			09/28/17 12:27	10

Client Sample ID: AX22246 MW-4

Lab Sample ID: 400-143786-24

Date Collected: 09/20/17 13:50

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		2.0	0.60	mg/L			09/28/17 10:47	1
Fluoride	0.31		0.10	0.032	mg/L			10/03/17 15:19	1
Sulfate	710		150	42	mg/L			09/28/17 13:03	30

Client Sample ID: AX22247 MW-4 DUP

Lab Sample ID: 400-143786-25

Date Collected: 09/20/17 13:50

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		2.0	0.60	mg/L			09/28/17 10:48	1
Fluoride	0.31		0.10	0.032	mg/L			10/03/17 15:35	1
Sulfate	700		150	42	mg/L			09/28/17 13:03	30

Client Sample ID: AX22248 EB-1

Lab Sample ID: 400-143786-26

Date Collected: 09/20/17 14:20

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			09/28/17 10:48	1
Fluoride	<0.032		0.10	0.032	mg/L			10/03/17 15:40	1
Sulfate	<1.4		5.0	1.4	mg/L			09/28/17 11:37	1

Client Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX22249 MW-12

Lab Sample ID: 400-143786-27

Date Collected: 09/21/17 09:50

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		2.0	0.60	mg/L			09/28/17 10:48	1
Fluoride	0.66		0.10	0.032	mg/L			10/03/17 15:42	1
Sulfate	1100		180	49	mg/L			09/28/17 13:21	35

Client Sample ID: AX22250 MW-10

Lab Sample ID: 400-143786-28

Date Collected: 09/21/17 11:12

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		2.0	0.60	mg/L			09/28/17 10:48	1
Fluoride	0.43		0.10	0.032	mg/L			10/03/17 15:02	1
Sulfate	660	F1	150	42	mg/L			09/28/17 13:03	30

Client Sample ID: AX22251 FB-3

Lab Sample ID: 400-143786-29

Date Collected: 09/21/17 09:37

Matrix: Water

Date Received: 09/26/17 13:13

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			09/28/17 10:48	1
Fluoride	<0.032		0.10	0.032	mg/L			10/03/17 15:45	1
Sulfate	<1.4		5.0	1.4	mg/L			09/28/17 11:37	1

Definitions/Glossary

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

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX21911 PZ-5

Date Collected: 09/18/17 13:11

Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-1

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	369871	09/28/17 08:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:24	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	369779	09/27/17 13:56	RRC	TAL PEN

Client Sample ID: AX21912 MW-5

Date Collected: 09/18/17 14:18

Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-2

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	369871	09/28/17 08:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:17	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	369779	09/27/17 13:29	RRC	TAL PEN

Client Sample ID: AX21913 MW-6

Date Collected: 09/18/17 16:44

Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-3

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	369871	09/28/17 08:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:19	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369779	09/27/17 13:52	RRC	TAL PEN

Client Sample ID: AX21914 MW-7D

Date Collected: 09/18/17 15:11

Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-4

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	369871	09/28/17 08:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:22	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369779	09/27/17 13:33	RRC	TAL PEN

Client Sample ID: AX21915 MW-7D DUP

Date Collected: 09/18/17 15:11

Date Received: 09/26/17 13:13

Lab Sample ID: 400-143786-5

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	369871	09/28/17 09:01	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:13	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369779	09/27/17 13:33	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX21916 MW-7S

Lab Sample ID: 400-143786-6

Date Collected: 09/18/17 15:54

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369871	09/28/17 09:01	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:26	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	369779	09/27/17 13:52	RRC	TAL PEN

Client Sample ID: AX21917 FB-1

Lab Sample ID: 400-143786-7

Date Collected: 09/18/17 15:32

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369871	09/28/17 09:01	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:28	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	369779	09/27/17 13:01	RRC	TAL PEN

Client Sample ID: AX21918 MW-8D

Lab Sample ID: 400-143786-8

Date Collected: 09/19/17 09:11

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369871	09/28/17 09:01	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 13:49	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369779	09/27/17 13:29	RRC	TAL PEN

Client Sample ID: AX21919 MW-8S

Lab Sample ID: 400-143786-9

Date Collected: 09/19/17 10:28

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369871	09/28/17 09:31	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:30	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369779	09/27/17 13:37	RRC	TAL PEN

Client Sample ID: AX21920 MW-9D

Lab Sample ID: 400-143786-10

Date Collected: 09/19/17 11:44

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 13:55	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369941	09/28/17 12:54	RRC	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX21921 MW-9S

Lab Sample ID: 400-143786-11

Date Collected: 09/19/17 13:09

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 13:57	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369941	09/28/17 12:54	RRC	TAL PEN

Client Sample ID: AX21922 MW-9S DUP

Lab Sample ID: 400-143786-12

Date Collected: 09/19/17 13:09

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:47	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369941	09/28/17 12:54	RRC	TAL PEN

Client Sample ID: AX21923 MW-13S

Lab Sample ID: 400-143786-13

Date Collected: 09/19/17 14:05

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 13:58	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	369941	09/28/17 12:15	RRC	TAL PEN

Client Sample ID: AX21924 MW-13D

Lab Sample ID: 400-143786-14

Date Collected: 09/19/17 15:06

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:00	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	369941	09/28/17 12:19	RRC	TAL PEN

Client Sample ID: AX21925 FB-2

Lab Sample ID: 400-143786-15

Date Collected: 09/19/17 14:54

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:02	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	369941	09/28/17 11:33	RRC	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX21926 MW-14

Lab Sample ID: 400-143786-16

Date Collected: 09/19/17 15:53

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:44	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:05	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	369941	09/28/17 12:19	RRC	TAL PEN

Client Sample ID: AX21927 MW-16

Lab Sample ID: 400-143786-17

Date Collected: 09/19/17 17:10

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:45	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370505	10/03/17 14:07	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369941	09/28/17 12:54	RRC	TAL PEN

Client Sample ID: AX21928 MW-15

Lab Sample ID: 400-143786-18

Date Collected: 09/19/17 17:56

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:45	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370651	10/04/17 13:24	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	369941	09/28/17 12:19	RRC	TAL PEN

Client Sample ID: AX22241 MW-1

Lab Sample ID: 400-143786-19

Date Collected: 09/19/17 13:35

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:45	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:09	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	369941	09/28/17 12:58	RRC	TAL PEN

Client Sample ID: AX22242 MW-11

Lab Sample ID: 400-143786-20

Date Collected: 09/19/17 16:20

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:47	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:11	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	369941	09/28/17 12:58	RRC	TAL PEN

Lab Chronicle

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

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

Client Sample ID: AX22243 MW-2

Lab Sample ID: 400-143786-21

Date Collected: 09/20/17 10:37

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:47	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:13	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	369941	09/28/17 13:40	RRC	TAL PEN

Client Sample ID: AX22244 MW-3D

Lab Sample ID: 400-143786-22

Date Collected: 09/20/17 12:02

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:47	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:15	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	369941	09/28/17 12:58	RRC	TAL PEN

Client Sample ID: AX22245 MW-3S

Lab Sample ID: 400-143786-23

Date Collected: 09/20/17 12:58

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:47	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:17	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	369941	09/28/17 12:27	RRC	TAL PEN

Client Sample ID: AX22246 MW-4

Lab Sample ID: 400-143786-24

Date Collected: 09/20/17 13:50

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:47	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:19	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	369941	09/28/17 13:03	RRC	TAL PEN

Client Sample ID: AX22247 MW-4 DUP

Lab Sample ID: 400-143786-25

Date Collected: 09/20/17 13:50

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:48	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:35	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	369941	09/28/17 13:03	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Client Sample ID: AX22248 EB-1

Lab Sample ID: 400-143786-26

Date Collected: 09/20/17 14:20

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:48	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:40	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	369941	09/28/17 11:37	RRC	TAL PEN

Client Sample ID: AX22249 MW-12

Lab Sample ID: 400-143786-27

Date Collected: 09/21/17 09:50

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:48	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:42	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	369941	09/28/17 13:21	RRC	TAL PEN

Client Sample ID: AX22250 MW-10

Lab Sample ID: 400-143786-28

Date Collected: 09/21/17 11:12

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:48	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:02	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	369941	09/28/17 13:03	RRC	TAL PEN

Client Sample ID: AX22251 FB-3

Lab Sample ID: 400-143786-29

Date Collected: 09/21/17 09:37

Matrix: Water

Date Received: 09/26/17 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	369889	09/28/17 10:48	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	370517	10/03/17 15:45	BAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	369941	09/28/17 11:37	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 Miller

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

General Chemistry

Analysis Batch: 369779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-1	AX21911 PZ-5	Total/NA	Water	SM 4500 SO4 E	
400-143786-2	AX21912 MW-5	Total/NA	Water	SM 4500 SO4 E	
400-143786-3	AX21913 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-143786-4	AX21914 MW-7D	Total/NA	Water	SM 4500 SO4 E	
400-143786-5	AX21915 MW-7D DUP	Total/NA	Water	SM 4500 SO4 E	
400-143786-6	AX21916 MW-7S	Total/NA	Water	SM 4500 SO4 E	
400-143786-7	AX21917 FB-1	Total/NA	Water	SM 4500 SO4 E	
400-143786-8	AX21918 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-143786-9	AX21919 MW-8S	Total/NA	Water	SM 4500 SO4 E	
MB 400-369779/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-369779/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-369779/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-143786-3 MS	AX21913 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-143786-3 MSD	AX21913 MW-6	Total/NA	Water	SM 4500 SO4 E	
400-143786-8 MS	AX21918 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-143786-8 MSD	AX21918 MW-8D	Total/NA	Water	SM 4500 SO4 E	
400-143786-5 DU	AX21915 MW-7D DUP	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 369871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-1	AX21911 PZ-5	Total/NA	Water	SM 4500 CI- E	
400-143786-2	AX21912 MW-5	Total/NA	Water	SM 4500 CI- E	
400-143786-3	AX21913 MW-6	Total/NA	Water	SM 4500 CI- E	
400-143786-4	AX21914 MW-7D	Total/NA	Water	SM 4500 CI- E	
400-143786-5	AX21915 MW-7D DUP	Total/NA	Water	SM 4500 CI- E	
400-143786-6	AX21916 MW-7S	Total/NA	Water	SM 4500 CI- E	
400-143786-7	AX21917 FB-1	Total/NA	Water	SM 4500 CI- E	
400-143786-8	AX21918 MW-8D	Total/NA	Water	SM 4500 CI- E	
400-143786-9	AX21919 MW-8S	Total/NA	Water	SM 4500 CI- E	
MB 400-369871/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-369871/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-369871/13	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-143786-8 MS	AX21918 MW-8D	Total/NA	Water	SM 4500 CI- E	
400-143786-8 MSD	AX21918 MW-8D	Total/NA	Water	SM 4500 CI- E	
400-143786-5 DU	AX21915 MW-7D DUP	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 369889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-10	AX21920 MW-9D	Total/NA	Water	SM 4500 CI- E	
400-143786-11	AX21921 MW-9S	Total/NA	Water	SM 4500 CI- E	
400-143786-12	AX21922 MW-9S DUP	Total/NA	Water	SM 4500 CI- E	
400-143786-13	AX21923 MW-13S	Total/NA	Water	SM 4500 CI- E	
400-143786-14	AX21924 MW-13D	Total/NA	Water	SM 4500 CI- E	
400-143786-15	AX21925 FB-2	Total/NA	Water	SM 4500 CI- E	
400-143786-16	AX21926 MW-14	Total/NA	Water	SM 4500 CI- E	
400-143786-17	AX21927 MW-16	Total/NA	Water	SM 4500 CI- E	
400-143786-18	AX21928 MW-15	Total/NA	Water	SM 4500 CI- E	
400-143786-19	AX22241 MW-1	Total/NA	Water	SM 4500 CI- E	
400-143786-20	AX22242 MW-11	Total/NA	Water	SM 4500 CI- E	
400-143786-21	AX22243 MW-2	Total/NA	Water	SM 4500 CI- E	
400-143786-22	AX22244 MW-3D	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

General Chemistry (Continued)

Analysis Batch: 369889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-23	AX22245 MW-3S	Total/NA	Water	SM 4500 Cl- E	
400-143786-24	AX22246 MW-4	Total/NA	Water	SM 4500 Cl- E	
400-143786-25	AX22247 MW-4 DUP	Total/NA	Water	SM 4500 Cl- E	
400-143786-26	AX22248 EB-1	Total/NA	Water	SM 4500 Cl- E	
400-143786-27	AX22249 MW-12	Total/NA	Water	SM 4500 Cl- E	
400-143786-28	AX22250 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-143786-29	AX22251 FB-3	Total/NA	Water	SM 4500 Cl- E	
MB 400-369889/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-369889/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-369889/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-143786-11 MS	AX21921 MW-9S	Total/NA	Water	SM 4500 Cl- E	
400-143786-11 MSD	AX21921 MW-9S	Total/NA	Water	SM 4500 Cl- E	
400-143786-28 MS	AX22250 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-143786-28 MSD	AX22250 MW-10	Total/NA	Water	SM 4500 Cl- E	
400-143786-12 DU	AX21922 MW-9S DUP	Total/NA	Water	SM 4500 Cl- E	
400-143786-25 DU	AX22247 MW-4 DUP	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 369941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-10	AX21920 MW-9D	Total/NA	Water	SM 4500 SO4 E	
400-143786-11	AX21921 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-143786-12	AX21922 MW-9S DUP	Total/NA	Water	SM 4500 SO4 E	
400-143786-13	AX21923 MW-13S	Total/NA	Water	SM 4500 SO4 E	
400-143786-14	AX21924 MW-13D	Total/NA	Water	SM 4500 SO4 E	
400-143786-15	AX21925 FB-2	Total/NA	Water	SM 4500 SO4 E	
400-143786-16	AX21926 MW-14	Total/NA	Water	SM 4500 SO4 E	
400-143786-17	AX21927 MW-16	Total/NA	Water	SM 4500 SO4 E	
400-143786-18	AX21928 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-143786-19	AX22241 MW-1	Total/NA	Water	SM 4500 SO4 E	
400-143786-20	AX22242 MW-11	Total/NA	Water	SM 4500 SO4 E	
400-143786-21	AX22243 MW-2	Total/NA	Water	SM 4500 SO4 E	
400-143786-22	AX22244 MW-3D	Total/NA	Water	SM 4500 SO4 E	
400-143786-23	AX22245 MW-3S	Total/NA	Water	SM 4500 SO4 E	
400-143786-24	AX22246 MW-4	Total/NA	Water	SM 4500 SO4 E	
400-143786-25	AX22247 MW-4 DUP	Total/NA	Water	SM 4500 SO4 E	
400-143786-26	AX22248 EB-1	Total/NA	Water	SM 4500 SO4 E	
400-143786-27	AX22249 MW-12	Total/NA	Water	SM 4500 SO4 E	
400-143786-28	AX22250 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-143786-29	AX22251 FB-3	Total/NA	Water	SM 4500 SO4 E	
MB 400-369941/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-369941/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-369941/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-143786-11 MS	AX21921 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-143786-11 MSD	AX21921 MW-9S	Total/NA	Water	SM 4500 SO4 E	
400-143786-28 MS	AX22250 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-143786-28 MSD	AX22250 MW-10	Total/NA	Water	SM 4500 SO4 E	
400-143786-12 DU	AX21922 MW-9S DUP	Total/NA	Water	SM 4500 SO4 E	
400-143786-25 DU	AX22247 MW-4 DUP	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

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

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

General Chemistry (Continued)

Analysis Batch: 370051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-370051/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-370051/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-370051/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-143786-18 MS	AX21928 MW-15	Total/NA	Water	SM 4500 Cl- E	
400-143786-18 MSD	AX21928 MW-15	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 370190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-370190/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-370190/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-370190/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-143786-18 MS	AX21928 MW-15	Total/NA	Water	SM 4500 SO4 E	
400-143786-18 MSD	AX21928 MW-15	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 370505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-1	AX21911 PZ-5	Total/NA	Water	SM 4500 F C	
400-143786-2	AX21912 MW-5	Total/NA	Water	SM 4500 F C	
400-143786-3	AX21913 MW-6	Total/NA	Water	SM 4500 F C	
400-143786-4	AX21914 MW-7D	Total/NA	Water	SM 4500 F C	
400-143786-5	AX21915 MW-7D DUP	Total/NA	Water	SM 4500 F C	
400-143786-6	AX21916 MW-7S	Total/NA	Water	SM 4500 F C	
400-143786-7	AX21917 FB-1	Total/NA	Water	SM 4500 F C	
400-143786-8	AX21918 MW-8D	Total/NA	Water	SM 4500 F C	
400-143786-9	AX21919 MW-8S	Total/NA	Water	SM 4500 F C	
400-143786-10	AX21920 MW-9D	Total/NA	Water	SM 4500 F C	
400-143786-11	AX21921 MW-9S	Total/NA	Water	SM 4500 F C	
400-143786-13	AX21923 MW-13S	Total/NA	Water	SM 4500 F C	
400-143786-14	AX21924 MW-13D	Total/NA	Water	SM 4500 F C	
400-143786-15	AX21925 FB-2	Total/NA	Water	SM 4500 F C	
400-143786-16	AX21926 MW-14	Total/NA	Water	SM 4500 F C	
400-143786-17	AX21927 MW-16	Total/NA	Water	SM 4500 F C	
MB 400-370505/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-370505/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-143786-8 MS	AX21918 MW-8D	Total/NA	Water	SM 4500 F C	
400-143786-8 MSD	AX21918 MW-8D	Total/NA	Water	SM 4500 F C	
400-143786-5 DU	AX21915 MW-7D DUP	Total/NA	Water	SM 4500 F C	

Analysis Batch: 370517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-12	AX21922 MW-9S DUP	Total/NA	Water	SM 4500 F C	
400-143786-19	AX22241 MW-1	Total/NA	Water	SM 4500 F C	
400-143786-20	AX22242 MW-11	Total/NA	Water	SM 4500 F C	
400-143786-21	AX22243 MW-2	Total/NA	Water	SM 4500 F C	
400-143786-22	AX22244 MW-3D	Total/NA	Water	SM 4500 F C	
400-143786-23	AX22245 MW-3S	Total/NA	Water	SM 4500 F C	
400-143786-24	AX22246 MW-4	Total/NA	Water	SM 4500 F C	
400-143786-25	AX22247 MW-4 DUP	Total/NA	Water	SM 4500 F C	
400-143786-26	AX22248 EB-1	Total/NA	Water	SM 4500 F C	
400-143786-27	AX22249 MW-12	Total/NA	Water	SM 4500 F C	
400-143786-28	AX22250 MW-10	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

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

TestAmerica Job ID: 400-143786-1
SDG: Plant Miller Ash Pond

General Chemistry (Continued)

Analysis Batch: 370517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-29	AX22251 FB-3	Total/NA	Water	SM 4500 F C	
MB 400-370517/5	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-370517/6	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-143786-28 MS	AX22250 MW-10	Total/NA	Water	SM 4500 F C	
400-143786-28 MSD	AX22250 MW-10	Total/NA	Water	SM 4500 F C	
400-143786-12 DU	AX21922 MW-9S DUP	Total/NA	Water	SM 4500 F C	
400-143786-25 DU	AX22247 MW-4 DUP	Total/NA	Water	SM 4500 F C	

Analysis Batch: 370651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-143786-18	AX21928 MW-15	Total/NA	Water	SM 4500 F C	
MB 400-370651/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-370651/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-143786-18 MS	AX21928 MW-15	Total/NA	Water	SM 4500 F C	
400-143786-18 MSD	AX21928 MW-15	Total/NA	Water	SM 4500 F C	
400-144028-B-9 DU	Duplicate	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-369871/16
Matrix: Water
Analysis Batch: 369871

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			09/28/17 08:59	1

Lab Sample ID: LCS 400-369871/17
Matrix: Water
Analysis Batch: 369871

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	30.2		mg/L		101	90 - 110

Lab Sample ID: MRL 400-369871/13
Matrix: Water
Analysis Batch: 369871

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: 400-143786-8 MS
Matrix: Water
Analysis Batch: 369871

Client Sample ID: AX21918 MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.1	F1	10.0	16.6		mg/L		75	73 - 120

Lab Sample ID: 400-143786-8 MSD
Matrix: Water
Analysis Batch: 369871

Client Sample ID: AX21918 MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	9.1	F1	10.0	16.2	F1	mg/L		70	73 - 120	3	8

Lab Sample ID: 400-143786-5 DU
Matrix: Water
Analysis Batch: 369871

Client Sample ID: AX21915 MW-7D DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	25			25.3		mg/L				0.3	8

Lab Sample ID: MB 400-369889/6
Matrix: Water
Analysis Batch: 369889

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			09/28/17 10:29	1

Lab Sample ID: LCS 400-369889/7
Matrix: Water
Analysis Batch: 369889

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

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Lab Sample ID: MRL 400-369889/3
Matrix: Water
Analysis Batch: 369889

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	2.01		mg/L		101	50 - 150

Lab Sample ID: 400-143786-11 MS
Matrix: Water
Analysis Batch: 369889

Client Sample ID: AX21921 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.1		10.0	17.6		mg/L		105	73 - 120

Lab Sample ID: 400-143786-11 MSD
Matrix: Water
Analysis Batch: 369889

Client Sample ID: AX21921 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.1		10.0	17.7		mg/L		105	73 - 120	0	8

Lab Sample ID: 400-143786-28 MS
Matrix: Water
Analysis Batch: 369889

Client Sample ID: AX22250 MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.7		10.0	17.5		mg/L		98	73 - 120

Lab Sample ID: 400-143786-28 MSD
Matrix: Water
Analysis Batch: 369889

Client Sample ID: AX22250 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
Chloride	7.7		10.0	17.5		mg/L		98	73 - 120	0	8

Lab Sample ID: 400-143786-12 DU
Matrix: Water
Analysis Batch: 369889

Client Sample ID: AX21922 MW-9S DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	7.3		7.42		mg/L		1	8

Lab Sample ID: 400-143786-25 DU
Matrix: Water
Analysis Batch: 369889

Client Sample ID: AX22247 MW-4 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	45		45.1		mg/L		0.1	8

Lab Sample ID: MB 400-370051/6
Matrix: Water
Analysis Batch: 370051

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			09/29/17 08:02	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-370051/7
Matrix: Water
Analysis Batch: 370051

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	30.0		mg/L		100	90 - 110

Lab Sample ID: MRL 400-370051/3
Matrix: Water
Analysis Batch: 370051

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	1.79	J	mg/L		90	50 - 150

Lab Sample ID: 400-143786-18 MS
Matrix: Water
Analysis Batch: 370051

Client Sample ID: AX21928 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19		10.0	29.0		mg/L		99	73 - 120

Lab Sample ID: 400-143786-18 MSD
Matrix: Water
Analysis Batch: 370051

Client Sample ID: AX21928 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	19		10.0	28.5		mg/L		94	73 - 120	2	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-370505/3
Matrix: Water
Analysis Batch: 370505

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			10/03/17 13:41	1

Lab Sample ID: LCS 400-370505/4
Matrix: Water
Analysis Batch: 370505

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	3.90		mg/L		98	90 - 110

Lab Sample ID: 400-143786-8 MS
Matrix: Water
Analysis Batch: 370505

Client Sample ID: AX21918 MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.35		1.00	1.36		mg/L		101	75 - 125

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-143786-8 MSD
Matrix: Water
Analysis Batch: 370505

Client Sample ID: AX21918 MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.35		1.00	1.36		mg/L		101	75 - 125	0	4

Lab Sample ID: 400-143786-5 DU
Matrix: Water
Analysis Batch: 370505

Client Sample ID: AX21915 MW-7D DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.11		0.110		mg/L		0	4

Lab Sample ID: MB 400-370517/5
Matrix: Water
Analysis Batch: 370517

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			10/03/17 14:54	1

Lab Sample ID: LCS 400-370517/6
Matrix: Water
Analysis Batch: 370517

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	3.90		mg/L		98	90 - 110

Lab Sample ID: 400-143786-28 MS
Matrix: Water
Analysis Batch: 370517

Client Sample ID: AX22250 MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.43		1.00	1.44		mg/L		101	75 - 125

Lab Sample ID: 400-143786-28 MSD
Matrix: Water
Analysis Batch: 370517

Client Sample ID: AX22250 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
Fluoride	0.43		1.00	1.44		mg/L		101	75 - 125	0	4

Lab Sample ID: 400-143786-12 DU
Matrix: Water
Analysis Batch: 370517

Client Sample ID: AX21922 MW-9S DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.18		0.180		mg/L		0	4

Lab Sample ID: 400-143786-25 DU
Matrix: Water
Analysis Batch: 370517

Client Sample ID: AX22247 MW-4 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.31		0.310		mg/L		0	4

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Lab Sample ID: MB 400-370651/3
Matrix: Water
Analysis Batch: 370651

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			10/04/17 13:07	1

Lab Sample ID: LCS 400-370651/4
Matrix: Water
Analysis Batch: 370651

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	4.05		mg/L		101	90 - 110

Lab Sample ID: 400-143786-18 MS
Matrix: Water
Analysis Batch: 370651

Client Sample ID: AX21928 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.12		1.00	1.19		mg/L		107	75 - 125

Lab Sample ID: 400-143786-18 MSD
Matrix: Water
Analysis Batch: 370651

Client Sample ID: AX21928 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
Fluoride	0.12		1.00	1.17		mg/L		105	75 - 125	2	4

Lab Sample ID: 400-144028-B-9 DU
Matrix: Water
Analysis Batch: 370651

Client Sample ID: Duplicate
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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-369779/6
Matrix: Water
Analysis Batch: 369779

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			09/27/17 12:42	1

Lab Sample ID: LCS 400-369779/7
Matrix: Water
Analysis Batch: 369779

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	13.8		mg/L		92	90 - 110

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MRL 400-369779/3
Matrix: Water
Analysis Batch: 369779

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	4.71	J	mg/L		94	50 - 150

Lab Sample ID: 400-143786-3 MS
Matrix: Water
Analysis Batch: 369779

Client Sample ID: AX21913 MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	510	F1	200	490	F1	mg/L		-8	77 - 128

Lab Sample ID: 400-143786-3 MSD
Matrix: Water
Analysis Batch: 369779

Client Sample ID: AX21913 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
Sulfate	510	F1	200	493	F1	mg/L		-7	77 - 128	1	5

Lab Sample ID: 400-143786-8 MS
Matrix: Water
Analysis Batch: 369779

Client Sample ID: AX21918 MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	350	F1	200	339	F1	mg/L		-4	77 - 128

Lab Sample ID: 400-143786-8 MSD
Matrix: Water
Analysis Batch: 369779

Client Sample ID: AX21918 MW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	350	F1	200	339	F1	mg/L		-4	77 - 128	0	5

Lab Sample ID: 400-143786-5 DU
Matrix: Water
Analysis Batch: 369779

Client Sample ID: AX21915 MW-7D DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	340		338		mg/L		0.2	5

Lab Sample ID: MB 400-369941/6
Matrix: Water
Analysis Batch: 369941

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			09/28/17 11:26	1

Lab Sample ID: LCS 400-369941/7
Matrix: Water
Analysis Batch: 369941

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	14.8		mg/L		98	90 - 110

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Lab Sample ID: MRL 400-369941/3
Matrix: Water
Analysis Batch: 369941

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	4.65	J	mg/L		93	50 - 150

Lab Sample ID: 400-143786-11 MS
Matrix: Water
Analysis Batch: 369941

Client Sample ID: AX21921 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	380	F1	200	361	F1	mg/L		-8	77 - 128

Lab Sample ID: 400-143786-11 MSD
Matrix: Water
Analysis Batch: 369941

Client Sample ID: AX21921 MW-9S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	380	F1	200	365	F1	mg/L		-6	77 - 128	1	5

Lab Sample ID: 400-143786-28 MS
Matrix: Water
Analysis Batch: 369941

Client Sample ID: AX22250 MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	660	F1	300	622	F1	mg/L		-13	77 - 128

Lab Sample ID: 400-143786-28 MSD
Matrix: Water
Analysis Batch: 369941

Client Sample ID: AX22250 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	660	F1	300	605	F1	mg/L		-19	77 - 128	3	5

Lab Sample ID: 400-143786-12 DU
Matrix: Water
Analysis Batch: 369941

Client Sample ID: AX21922 MW-9S DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	380		385		mg/L		2	5

Lab Sample ID: 400-143786-25 DU
Matrix: Water
Analysis Batch: 369941

Client Sample ID: AX22247 MW-4 DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	700		705		mg/L		0.2	5

Lab Sample ID: MB 400-370190/6
Matrix: Water
Analysis Batch: 370190

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			09/30/17 09:34	1

TestAmerica Pensacola

QC Sample Results

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-370190/7
Matrix: Water
Analysis Batch: 370190

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	14.2		mg/L		95	90 - 110

Lab Sample ID: MRL 400-370190/3
Matrix: Water
Analysis Batch: 370190

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	4.63	J	mg/L		93	50 - 150

Lab Sample ID: 400-143786-18 MS
Matrix: Water
Analysis Batch: 370190

Client Sample ID: AX21928 MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	72	F2	50.0	83.7	F1	mg/L		24	77 - 128

Lab Sample ID: 400-143786-18 MSD
Matrix: Water
Analysis Batch: 370190

Client Sample ID: AX21928 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	72	F2	50.0	82.4	F1	mg/L		22	77 - 128	2	5

Client Information Client Contact: Anthony Goggins Keilin Komegay Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6004 Email: fkkorne@southemco.com Project Name: CCR Site: Miller Ash Pond		Lab P/N: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamerica.com Camtar Tracking No(s): Job #:									
Due Date Requested: TAT Requested (days): Routine PO #: 205-664-6004 WO #: fkkorne@southemco.com Project #: SSO#: Miller Ash Pond		COC No: 400-56525-24537.1 Page: Page 1 of 1 Job #:									
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, 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 Special Instructions/QC Requirements:									
Empty Kit Relinquished by: Keith Komegay Relinquished by: Date: 9-25-17 Relinquished by: Date/Time: 08:00 Relinquished by: Date/Time:		Method of Shipment: _____ Date/Time: 9-26-17 15:13 Date/Time: _____ Date/Time: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: 5.5C 2K7 TO									
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix (W=water, S=solid, O=volatile, B=trace, A=air) Preservation Code: Field Filtered Sample (Yes or No) Perform MS/MS (Yes or No) SM 4500 F SM 4500 CL E SM 4500 SD E Total Number of Containers		Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - As/NO2 D - Nitric Acid P - Na2OAS E - NaHSO4 R - Na2SO3 F - MeOH S - H2SO4 G - Amchlor H - Ascorbic Acid T - TSP Dodecahydrate I - Ice J - DI Water U - Acetone K - EDTA V - MCAA L - EDA W - ph 4-5 Z - other (specify) Other:									
AX21911	9/18/17	1311	G	Water	W	X	X	X	1	PZ-5	
AX21912	9/18/17	1418	G	Water	W	X	X	X	1	MW-5	
AX21913	9/18/17	1844	G	Water	W	X	X	X	1	MW-6	
AX21914	9/18/17	1511	G	Water	W	X	X	X	1	MW-7D	
AX21915	9/18/17	1511	G	Water	W	X	X	X	1	MW-7DDUP (Sample Duplicate)	
AX21916	9/18/17	1554	G	Water	W	X	X	X	1	MW-7S	
AX21917	9/18/17	1532	G	Water	W	X	X	X	1	FB-1 (Field Blank)	
AX21918	9/19/17	0811	G	Water	W	X	X	X	1	MW-8D	
AX21919	9/19/17	1028	G	Water	W	X	X	X	1	MW-8S	
AX21920	9/19/17	1144	G	Water	W	X	X	X	1	MW-9D	
AX21921	9/19/17	1309	G	Water	W	X	X	X	1	MW-9S	



Chain of Custody Record

Client Information		Sampler:		Lab PM:		Carrier Tracking No(s):				
Client Contact: Keith Kornegey		Anthony Goggins/Nick Pitts		Whitmire, Cheyenne R		400-56525-24537.1				
Company: Alabama Power General Test Laboratory		Phone:		E-Mail: cheyenne.whitmire@testamericainc.com		Page 1 of 1				
Address: 744 County Rd 87 GSC #8		Due Date Requested:		Analysis Requested		Job #:				
City: Calera		TAT Requested (days): Routine		Field Filtered Sample (Yes or No)		Preservation Codes:				
State, Zip: AL, 35040		FO #:		Partout MS/MSD (Yes or No)		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amohlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice J - DI Water U - Acetone K - EDTA L - EDA W - pH 4-5 Z - other (specify) Other:				
Email: fkornegey@southernco.com		WO #:		SM 4500 F		Special Instructions/Note:				
Project Name: CCR		Project #:		SM 4500 CL		Total Number of Containers				
Site: Miller Ash Pond		SSOW#:		SM 4500 SO4 M						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Field Filtered Sample (Yes or No)	Partout MS/MSD (Yes or No)	SM 4500 F	SM 4500 CL	SM 4500 SO4 M	Special Instructions/Note:
AX21922	9/19/17	1308	G	Water	X	N	X	X	X	MW-9SDUP (Sample Duplicate)
AX21923	9/19/17	1405	G	Water	X		X	X	X	MW-13S
AX21924	9/19/17	1508	G	Water	X		X	X	X	MW-13D
AX21925	9/19/17	1454	G	Water	X		X	X	X	FB-2 (Field Blank)
AX21926	9/19/17	1553	G	Water	X		X	X	X	MW-14
AX21927	9/19/17	1710	G	Water	X		X	X	X	MW-16
AX21928	9/19/17	1756	G	Water	X		X	X	X	MW-15
AX22241	9/19/17	1335	G	Water	X		X	X	X	MW-1
AX22242	9/19/17	1620	G	Water	X		X	X	X	MW-11
AX22243	9/20/17	1037	G	Water	X		X	X	X	MW-2
AX22244	9/20/17	1202	G	Water	X		X	X	X	MW-3D
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, 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 Special Instructions/QC Requirements:										
Empty Kit Relinquished by: Relinquished by: Keith Kornegey		Date: Date/Time: 09/25/2017 12:00		Company APC		Time: Date/Time: 9/26/17 1313		Method of Shipment: Date/Time: Company Date/Time: Company Date/Time: Company		Company JA Company Company
Relinquished by:		Date/Time:		Company		Date/Time:		Company		Company
Relinquished by:		Date/Time:		Company		Date/Time:		Company		Company
Custody Seals Intact		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:						



Chain of Custody Record

Client Information Client Contact: Keith Komegay Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL, 36040 Phone: 205-664-6004 Email: [k.komegay@alpower.com] Project Name: CCR Site: Miller Ash Pond		Lab PW: Whitmire, Chyenenne R E-Mail: chyenenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-56525-24537.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Routine PO #: 205-664-6004 WO #: [k.komegay@alpower.com] Project #: [k.komegay@alpower.com] SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SD3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - MCAA Z - other (specify)	
Sample Identification Sample ID: AX22245 Sample ID: AX22246 Sample ID: AX22247 Sample ID: AX22248 Sample ID: AX22249 Sample ID: AX22250 Sample ID: AX22251		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N SM 4500 F.C. <input checked="" type="checkbox"/> X SM 4500 Cl.F. <input checked="" type="checkbox"/> X SM 4500 SO4.L.F. <input checked="" type="checkbox"/> X Total Number of Containers: 1 MW-3S 1 MW-4 1 MW-4 Dup (Sample Duplicates) 1 EB-1 (Equipment Blank) 1 MW-12 1 MW-10 1 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: I, II, III, IV, Other (specify)		Special Instructions/Note: 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:	
Empty Kit Relinquished by: Relinquished by: Keith Komegay Date/Time: 09/25/2017 12:00 Company: APC		Method of Shipment: Received by: [Signature] Date/Time: 9/26/17 1313 Company: TA	
Relinquished by: Relinquished by: [Signature] Date/Time: [Signature] Company: Company		Relinquished by: Relinquished by: [Signature] Date/Time: [Signature] Company: Company	
Custody Seals Intact: <input checked="" type="checkbox"/> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-143786-1
SDG Number: Plant Miller Ash Pond

Login Number: 143786

List Number: 1

Creator: Hughes, Nicholas T

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.5°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

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

TestAmerica Job ID: 400-143786-1
 SDG: Plant Miller Ash Pond

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	01-11-18
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	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
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	12-31-17
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
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

Plant Miller Ash Pond
Field pH Data

Well	Date	Obs	Units
GS-AP-MW-13	8/2/2016	6.8	SU
GS-AP-MW-13	9/20/2016	6.8	SU
GS-AP-MW-13	10/25/2016	6.85	SU
GS-AP-MW-13	12/13/2016	6.8	SU
GS-AP-MW-13	2/8/2017	6.76	SU
GS-AP-MW-13	3/29/2017	6.76	SU
GS-AP-MW-13	4/26/2017	6.71	SU
GS-AP-MW-13	6/7/2017	6.71	SU
GS-AP-MW-8	8/3/2016	5.84	SU
GS-AP-MW-8	9/21/2016	5.99	SU
GS-AP-MW-8	10/25/2016	5.94	SU
GS-AP-MW-8	12/13/2016	5.84	SU
GS-AP-MW-8	2/6/2017	5.9	SU
GS-AP-MW-8	3/28/2017	5.67	SU
GS-AP-MW-8	4/24/2017	5.79	SU
GS-AP-MW-8	6/7/2017	5.71	SU
MR-AP-MW-1	7/25/2016	7.52	SU
MR-AP-MW-1	9/26/2016	8.96	SU
MR-AP-MW-1	11/2/2016	8.51	SU
MR-AP-MW-1	1/11/2017	8.5	SU
MR-AP-MW-1	2/13/2017	8.63	SU
MR-AP-MW-1	3/30/2017	8.67	SU
MR-AP-MW-1	4/3/2017	7.63	SU
MR-AP-MW-1	5/15/2017	8.67	SU
MR-AP-MW-1	6/14/2017	8.39	SU
MR-AP-MW-1	9/19/2017	8.78	SU
MR-AP-MW-10	7/25/2016	6.73	SU
MR-AP-MW-10	9/27/2016	6.82	SU
MR-AP-MW-10	10/31/2016	6.78	SU
MR-AP-MW-10	1/11/2017	6.8	SU
MR-AP-MW-10	2/14/2017	6.74	SU
MR-AP-MW-10	4/6/2017	6.73	SU
MR-AP-MW-10	5/17/2017	6.73	SU
MR-AP-MW-10	6/13/2017	6.71	SU
MR-AP-MW-10	9/21/2017	6.8	SU
MR-AP-MW-11	7/25/2016	6.74	SU
MR-AP-MW-11	9/27/2016	6.74	SU
MR-AP-MW-11	11/1/2016	6.71	SU
MR-AP-MW-11	1/12/2017	6.61	SU
MR-AP-MW-11	2/13/2017	6.58	SU
MR-AP-MW-11	3/30/2017	6.57	SU
MR-AP-MW-11	4/4/2017	6.56	SU
MR-AP-MW-11	5/16/2017	6.56	SU
MR-AP-MW-11	6/14/2017	6.5	SU
MR-AP-MW-11	9/19/2017	6.55	SU
MR-AP-MW-12	7/20/2016	6.63	SU

Plant Miller Ash Pond
Field pH Data

Well	Date	Obs	Units
MR-AP-MW-12	9/27/2016	6.59	SU
MR-AP-MW-12	11/1/2016	6.6	SU
MR-AP-MW-12	1/11/2017	6.59	SU
MR-AP-MW-12	2/15/2017	6.59	SU
MR-AP-MW-12	4/4/2017	6.54	SU
MR-AP-MW-12	5/15/2017	6.56	SU
MR-AP-MW-12	6/14/2017	6.55	SU
MR-AP-MW-12	9/21/2017	6.53	SU
MR-AP-MW-13D	7/20/2016	6.75	SU
MR-AP-MW-13D	9/27/2016	6.49	SU
MR-AP-MW-13D	11/1/2016	6.5	SU
MR-AP-MW-13D	1/11/2017	6.64	SU
MR-AP-MW-13D	2/15/2017	6.61	SU
MR-AP-MW-13D	4/4/2017	6.66	SU
MR-AP-MW-13D	5/17/2017	6.7	SU
MR-AP-MW-13D	6/13/2017	6.69	SU
MR-AP-MW-13D	9/19/2017	6.76	SU
MR-AP-MW-13S	7/20/2016	5.63	SU
MR-AP-MW-13S	9/27/2016	5.63	SU
MR-AP-MW-13S	11/1/2016	5.58	SU
MR-AP-MW-13S	1/11/2017	5.56	SU
MR-AP-MW-13S	2/15/2017	5.58	SU
MR-AP-MW-13S	4/6/2017	5.53	SU
MR-AP-MW-13S	5/17/2017	5.53	SU
MR-AP-MW-13S	6/13/2017	5.57	SU
MR-AP-MW-13S	9/19/2017	5.65	SU
MR-AP-MW-14	7/20/2016	6.35	SU
MR-AP-MW-14	9/26/2016	6.36	SU
MR-AP-MW-14	10/31/2016	6.31	SU
MR-AP-MW-14	1/9/2017	6.28	SU
MR-AP-MW-14	2/14/2017	6.27	SU
MR-AP-MW-14	4/4/2017	6.25	SU
MR-AP-MW-14	5/17/2017	6.33	SU
MR-AP-MW-14	6/13/2017	6.3	SU
MR-AP-MW-14	9/19/2017	6.43	SU
MR-AP-MW-15	7/19/2016	6.55	SU
MR-AP-MW-15	9/26/2016	6.55	SU
MR-AP-MW-15	10/31/2016	6.49	SU
MR-AP-MW-15	1/9/2017	6.46	SU
MR-AP-MW-15	2/14/2017	6.47	SU
MR-AP-MW-15	4/4/2017	6.38	SU
MR-AP-MW-15	5/16/2017	6.46	SU
MR-AP-MW-15	6/12/2017	6.41	SU
MR-AP-MW-15	9/19/2017	6.5	SU
MR-AP-MW-16	7/19/2016	6.07	SU
MR-AP-MW-16	9/26/2016	5.91	SU

Plant Miller Ash Pond
Field pH Data

Well	Date	Obs	Units
MR-AP-MW-16	10/31/2016	6.19	SU
MR-AP-MW-16	1/9/2017	6.03	SU
MR-AP-MW-16	2/14/2017	6.13	SU
MR-AP-MW-16	4/3/2017	5.97	SU
MR-AP-MW-16	5/16/2017	5.97	SU
MR-AP-MW-16	6/12/2017	6.1	SU
MR-AP-MW-16	9/19/2017	6.03	SU
MR-AP-MW-2	7/25/2016	6.03	SU
MR-AP-MW-2	9/28/2016	5.96	SU
MR-AP-MW-2	11/1/2016	6.02	SU
MR-AP-MW-2	1/11/2017	6.11	SU
MR-AP-MW-2	2/14/2017	6.16	SU
MR-AP-MW-2	4/4/2017	6.1	SU
MR-AP-MW-2	5/16/2017	6.12	SU
MR-AP-MW-2	6/14/2017	6.11	SU
MR-AP-MW-2	9/20/2017	6.16	SU
MR-AP-MW-3D	7/19/2016	6.72	SU
MR-AP-MW-3D	9/26/2016	6.76	SU
MR-AP-MW-3D	10/31/2016	6.72	SU
MR-AP-MW-3D	1/9/2017	6.73	SU
MR-AP-MW-3D	2/13/2017	6.73	SU
MR-AP-MW-3D	3/29/2017	6.68	SU
MR-AP-MW-3D	4/3/2017	6.73	SU
MR-AP-MW-3D	5/16/2017	6.71	SU
MR-AP-MW-3D	6/12/2017	6.79	SU
MR-AP-MW-3D	9/20/2017	6.8	SU
MR-AP-MW-3S	7/19/2016	8.95	SU
MR-AP-MW-3S	9/26/2016	9.13	SU
MR-AP-MW-3S	10/31/2016	9.04	SU
MR-AP-MW-3S	1/9/2017	9.62	SU
MR-AP-MW-3S	2/13/2017	9.43	SU
MR-AP-MW-3S	3/29/2017	9.04	SU
MR-AP-MW-3S	4/3/2017	9.18	SU
MR-AP-MW-3S	5/16/2017	9.11	SU
MR-AP-MW-3S	6/12/2017	9.54	SU
MR-AP-MW-3S	9/20/2017	9.69	SU
MR-AP-MW-4	7/19/2016	5.82	SU
MR-AP-MW-4	9/27/2016	5.85	SU
MR-AP-MW-4	11/1/2016	5.79	SU
MR-AP-MW-4	1/9/2017	5.83	SU
MR-AP-MW-4	2/13/2017	5.78	SU
MR-AP-MW-4	3/30/2017	5.73	SU
MR-AP-MW-4	4/4/2017	5.7	SU
MR-AP-MW-4	5/16/2017	5.72	SU
MR-AP-MW-4	6/12/2017	5.83	SU
MR-AP-MW-4	9/20/2017	5.86	SU

Plant Miller Ash Pond
Field pH Data

Well	Date	Obs	Units
MR-AP-MW-5	7/26/2016	7.01	SU
MR-AP-MW-5	9/28/2016	7.06	SU
MR-AP-MW-5	11/2/2016	7.02	SU
MR-AP-MW-5	1/10/2017	7.17	SU
MR-AP-MW-5	2/14/2017	7.01	SU
MR-AP-MW-5	4/3/2017	7.09	SU
MR-AP-MW-5	5/17/2017	7	SU
MR-AP-MW-5	6/12/2017	7.08	SU
MR-AP-MW-5	9/18/2017	7.09	SU
MR-AP-MW-6	7/26/2016	5.98	SU
MR-AP-MW-6	9/28/2016	6	SU
MR-AP-MW-6	11/1/2016	6	SU
MR-AP-MW-6	1/9/2017	6.04	SU
MR-AP-MW-6	2/13/2017	6.04	SU
MR-AP-MW-6	3/29/2017	6.01	SU
MR-AP-MW-6	4/3/2017	6.02	SU
MR-AP-MW-6	5/16/2017	5.92	SU
MR-AP-MW-6	6/12/2017	5.99	SU
MR-AP-MW-6	9/18/2017	6.04	SU
MR-AP-MW-7D	7/21/2016	6.71	SU
MR-AP-MW-7D	9/27/2016	6.71	SU
MR-AP-MW-7D	11/1/2016	6.74	SU
MR-AP-MW-7D	1/10/2017	6.77	SU
MR-AP-MW-7D	2/14/2017	6.74	SU
MR-AP-MW-7D	4/4/2017	6.66	SU
MR-AP-MW-7D	5/16/2017	6.69	SU
MR-AP-MW-7D	6/13/2017	6.71	SU
MR-AP-MW-7D	9/18/2017	6.77	SU
MR-AP-MW-7S	7/21/2016	6.51	SU
MR-AP-MW-7S	9/27/2016	6.51	SU
MR-AP-MW-7S	11/1/2016	6.51	SU
MR-AP-MW-7S	1/10/2017	6.52	SU
MR-AP-MW-7S	2/14/2017	6.5	SU
MR-AP-MW-7S	4/4/2017	6.4	SU
MR-AP-MW-7S	5/16/2017	6.45	SU
MR-AP-MW-7S	6/13/2017	6.49	SU
MR-AP-MW-7S	9/18/2017	6.56	SU
MR-AP-MW-8D	7/25/2016	6.27	SU
MR-AP-MW-8D	9/28/2016	6.4	SU
MR-AP-MW-8D	11/1/2016	6.41	SU
MR-AP-MW-8D	1/10/2017	6.36	SU
MR-AP-MW-8D	2/15/2017	6.34	SU
MR-AP-MW-8D	4/4/2017	6.41	SU
MR-AP-MW-8D	5/17/2017	6.36	SU
MR-AP-MW-8D	6/13/2017	6.43	SU
MR-AP-MW-8D	9/19/2017	6.32	SU

Plant Miller Ash Pond
Field pH Data

Well	Date	Obs	Units
MR-AP-MW-8S	7/25/2016	6.7	SU
MR-AP-MW-8S	9/27/2016	6.71	SU
MR-AP-MW-8S	11/1/2016	6.71	SU
MR-AP-MW-8S	1/10/2017	6.66	SU
MR-AP-MW-8S	2/14/2017	6.66	SU
MR-AP-MW-8S	4/4/2017	6.66	SU
MR-AP-MW-8S	5/16/2017	6.68	SU
MR-AP-MW-8S	6/13/2017	6.72	SU
MR-AP-MW-8S	9/19/2017	6.76	SU
MR-AP-MW-9D	7/20/2016	5.76	SU
MR-AP-MW-9D	9/28/2016	5.75	SU
MR-AP-MW-9D	11/1/2016	5.71	SU
MR-AP-MW-9D	1/10/2017	5.76	SU
MR-AP-MW-9D	2/15/2017	5.69	SU
MR-AP-MW-9D	4/4/2017	5.72	SU
MR-AP-MW-9D	5/17/2017	5.64	SU
MR-AP-MW-9D	6/13/2017	5.69	SU
MR-AP-MW-9D	9/19/2017	5.75	SU
MR-AP-MW-9S	7/20/2016	5.45	SU
MR-AP-MW-9S	9/27/2016	5.46	SU
MR-AP-MW-9S	11/2/2016	5.37	SU
MR-AP-MW-9S	1/12/2017	5.46	SU
MR-AP-MW-9S	2/15/2017	5.96	SU
MR-AP-MW-9S	4/6/2017	6.07	SU
MR-AP-MW-9S	5/17/2017	5.59	SU
MR-AP-MW-9S	6/14/2017	5.71	SU
MR-AP-MW-9S	9/19/2017	5.73	SU
MR-AP-PZ-5	7/26/2016	7.88	SU
MR-AP-PZ-5	9/28/2016	7.8	SU
MR-AP-PZ-5	11/2/2016	7.86	SU
MR-AP-PZ-5	1/12/2017	7.9	SU
MR-AP-PZ-5	2/13/2017	7.86	SU
MR-AP-PZ-5	3/30/2017	8.06	SU
MR-AP-PZ-5	4/3/2017	8	SU
MR-AP-PZ-5	5/17/2017	7.99	SU
MR-AP-PZ-5	6/12/2017	7.91	SU
MR-AP-PZ-5	9/18/2017	8.04	SU

Appendix B

Statistical Data Evaluation

Interwell Prediction Limits -Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/24/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method
Boron (mg/L)	MR-AP-MW-3D	0.409	n/a	9/20/2017	0.505	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-4	0.409	n/a	9/20/2017	0.506	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-5	0.409	n/a	9/18/2017	0.921	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-6	0.409	n/a	9/18/2017	0.864	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-7D	0.409	n/a	9/18/2017	0.734	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-7S	0.409	n/a	9/18/2017	0.697	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-8D	0.409	n/a	9/19/2017	1.13	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-8S	0.409	n/a	9/19/2017	1.76	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-9D	0.409	n/a	9/19/2017	0.716	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-10	0.409	n/a	9/21/2017	3.08	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-12	0.409	n/a	9/21/2017	3.76	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-16	0.409	n/a	9/19/2017	3	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-PZ-5	0.409	n/a	9/18/2017	0.428	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-1	91.9	n/a	9/19/2017	98.6	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-2	91.9	n/a	9/20/2017	235	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-3D	91.9	n/a	9/20/2017	211	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-4	91.9	n/a	9/20/2017	249	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-5	91.9	n/a	9/18/2017	292	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-6	91.9	n/a	9/18/2017	144	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-7D	91.9	n/a	9/18/2017	108	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-10	91.9	n/a	9/21/2017	133	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-11	91.9	n/a	9/19/2017	165	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-12	91.9	n/a	9/21/2017	171	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-16	91.9	n/a	9/19/2017	136	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Chloride (mg/L)	MR-AP-MW-1	12.53	n/a	9/19/2017	13	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3D	12.53	n/a	9/20/2017	43	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3S	12.53	n/a	9/20/2017	30	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-4	12.53	n/a	9/20/2017	45	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-5	12.53	n/a	9/18/2017	45	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-6	12.53	n/a	9/18/2017	29	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7D	12.53	n/a	9/18/2017	25	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7S	12.53	n/a	9/18/2017	24	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9D	12.53	n/a	9/19/2017	13	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13D	12.53	n/a	9/19/2017	13	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-15	12.53	n/a	9/19/2017	19	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-16	12.53	n/a	9/19/2017	19	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-PZ-5	12.53	n/a	9/18/2017	36	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3D	0.2268	n/a	9/20/2017	0.35	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3S	0.2268	n/a	9/20/2017	0.26	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-4	0.2268	n/a	9/20/2017	0.31	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-5	0.2268	n/a	9/18/2017	0.37	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8D	0.2268	n/a	9/19/2017	0.35	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8S	0.2268	n/a	9/19/2017	0.57	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-10	0.2268	n/a	9/21/2017	0.43	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-12	0.2268	n/a	9/21/2017	0.66	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-PZ-5	0.2268	n/a	9/18/2017	1.1	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
pH (pH)	MR-AP-MW-1	6.052	5.177	9/19/2017	8.78	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-2	6.052	5.177	9/20/2017	6.16	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-3D	6.052	5.177	9/20/2017	6.8	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-3S	6.052	5.177	9/20/2017	9.69	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-5	6.052	5.177	9/18/2017	7.09	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-7D	6.052	5.177	9/18/2017	6.77	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-7S	6.052	5.177	9/18/2017	6.56	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-8D	6.052	5.177	9/19/2017	6.32	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-8S	6.052	5.177	9/19/2017	6.76	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2

Interwell Prediction Limits -Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/24/2018, 1:48 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>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDsND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (pH)	MR-AP-MW-10	6.052	5.177	9/21/2017	6.8	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-11	6.052	5.177	9/19/2017	6.55	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-12	6.052	5.177	9/21/2017	6.53	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-13D	6.052	5.177	9/19/2017	6.76	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-14	6.052	5.177	9/19/2017	6.43	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-15	6.052	5.177	9/19/2017	6.5	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-PZ-5	6.052	5.177	9/18/2017	8.04	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
Sulfate (mg/L)	MR-AP-MW-2	794	n/a	9/20/2017	1400	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-5	794	n/a	9/18/2017	830	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-12	794	n/a	9/21/2017	1100	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
TDS (mg/L)	MR-AP-MW-2	2063	n/a	9/20/2017	2500	Yes	18	6.116	0.5989	0	None	In(x)	0.0003762 Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/24/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method
Boron (mg/L)	MR-AP-MW-1	0.409	n/a	9/19/2017	0.0559	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-2	0.409	n/a	9/20/2017	0.148	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-3D	0.409	n/a	9/20/2017	0.505	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-3S	0.409	n/a	9/20/2017	0.188	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-4	0.409	n/a	9/20/2017	0.506	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-5	0.409	n/a	9/18/2017	0.921	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-6	0.409	n/a	9/18/2017	0.864	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-7D	0.409	n/a	9/18/2017	0.734	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-7S	0.409	n/a	9/18/2017	0.697	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-8D	0.409	n/a	9/19/2017	1.13	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-8S	0.409	n/a	9/19/2017	1.76	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-9D	0.409	n/a	9/19/2017	0.716	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-10	0.409	n/a	9/21/2017	3.08	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-11	0.409	n/a	9/19/2017	0.0253	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-12	0.409	n/a	9/21/2017	3.76	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-13D	0.409	n/a	9/19/2017	0.0732	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-14	0.409	n/a	9/19/2017	0.115	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-15	0.409	n/a	9/19/2017	0.192	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-MW-16	0.409	n/a	9/19/2017	3	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Boron (mg/L)	MR-AP-PZ-5	0.409	n/a	9/18/2017	0.428	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-1	91.9	n/a	9/19/2017	98.6	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-2	91.9	n/a	9/20/2017	235	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-3D	91.9	n/a	9/20/2017	211	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-3S	91.9	n/a	9/20/2017	3.88	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-4	91.9	n/a	9/20/2017	249	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-5	91.9	n/a	9/18/2017	292	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-6	91.9	n/a	9/18/2017	144	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-7D	91.9	n/a	9/18/2017	108	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-7S	91.9	n/a	9/18/2017	81.6	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-8D	91.9	n/a	9/19/2017	51.5	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-8S	91.9	n/a	9/19/2017	52.5	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-9D	91.9	n/a	9/19/2017	66	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-10	91.9	n/a	9/21/2017	133	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-11	91.9	n/a	9/19/2017	165	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-12	91.9	n/a	9/21/2017	171	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-13D	91.9	n/a	9/19/2017	47.3	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-14	91.9	n/a	9/19/2017	33.6	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-15	91.9	n/a	9/19/2017	37.8	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-MW-16	91.9	n/a	9/19/2017	136	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Calcium (mg/L)	MR-AP-PZ-5	91.9	n/a	9/18/2017	20.2	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Chloride (mg/L)	MR-AP-MW-1	12.53	n/a	9/19/2017	13	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-2	12.53	n/a	9/20/2017	8.3	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3D	12.53	n/a	9/20/2017	43	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3S	12.53	n/a	9/20/2017	30	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-4	12.53	n/a	9/20/2017	45	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-5	12.53	n/a	9/18/2017	45	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-6	12.53	n/a	9/18/2017	29	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7D	12.53	n/a	9/18/2017	25	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7S	12.53	n/a	9/18/2017	24	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8D	12.53	n/a	9/19/2017	9.1	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8S	12.53	n/a	9/19/2017	4.5	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9D	12.53	n/a	9/19/2017	13	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-10	12.53	n/a	9/21/2017	7.7	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-11	12.53	n/a	9/19/2017	6.8	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-12	12.53	n/a	9/21/2017	7.7	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/24/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method
Chloride (mg/L)	MR-AP-MW-13D	12.53	n/a	9/19/2017	13	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-14	12.53	n/a	9/19/2017	7.5	No	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-15	12.53	n/a	9/19/2017	19	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-16	12.53	n/a	9/19/2017	19	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Chloride (mg/L)	MR-AP-PZ-5	12.53	n/a	9/18/2017	36	Yes	18	7.972	1.803	0	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-1	0.2268	n/a	9/19/2017	0.17	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-2	0.2268	n/a	9/20/2017	0.12	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3D	0.2268	n/a	9/20/2017	0.35	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3S	0.2268	n/a	9/20/2017	0.26	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-4	0.2268	n/a	9/20/2017	0.31	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-5	0.2268	n/a	9/18/2017	0.37	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-6	0.2268	n/a	9/18/2017	0.11	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7D	0.2268	n/a	9/18/2017	0.11	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7S	0.2268	n/a	9/18/2017	0.22	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8D	0.2268	n/a	9/19/2017	0.35	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8S	0.2268	n/a	9/19/2017	0.57	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-9D	0.2268	n/a	9/19/2017	0.16	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-10	0.2268	n/a	9/21/2017	0.43	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-11	0.2268	n/a	9/19/2017	0.16	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-12	0.2268	n/a	9/21/2017	0.66	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-13D	0.2268	n/a	9/19/2017	0.11	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-14	0.2268	n/a	9/19/2017	0.1ND	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-15	0.2268	n/a	9/19/2017	0.12	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-16	0.2268	n/a	9/19/2017	0.16	No	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-PZ-5	0.2268	n/a	9/18/2017	1.1	Yes	18	0.1108	0.04584	11.11	None	No	0.0003762 Param Inter 1 of 2
pH (pH)	MR-AP-MW-1	6.052	5.177	9/19/2017	8.78	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-2	6.052	5.177	9/20/2017	6.16	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-3D	6.052	5.177	9/20/2017	6.8	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-3S	6.052	5.177	9/20/2017	9.69	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-4	6.052	5.177	9/20/2017	5.86	No	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-5	6.052	5.177	9/18/2017	7.09	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-6	6.052	5.177	9/18/2017	6.04	No	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-7D	6.052	5.177	9/18/2017	6.77	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-7S	6.052	5.177	9/18/2017	6.56	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-8D	6.052	5.177	9/19/2017	6.32	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-8S	6.052	5.177	9/19/2017	6.76	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-9D	6.052	5.177	9/19/2017	5.75	No	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-10	6.052	5.177	9/21/2017	6.8	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-11	6.052	5.177	9/19/2017	6.55	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-12	6.052	5.177	9/21/2017	6.53	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-13D	6.052	5.177	9/19/2017	6.76	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-14	6.052	5.177	9/19/2017	6.43	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-15	6.052	5.177	9/19/2017	6.5	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-MW-16	6.052	5.177	9/19/2017	6.03	No	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
pH (pH)	MR-AP-PZ-5	6.052	5.177	9/18/2017	8.04	Yes	18	5.614	0.1728	0	None	No	0.0001881 Param Inter 1 of 2
Sulfate (mg/L)	MR-AP-MW-1	794	n/a	9/19/2017	430	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-2	794	n/a	9/20/2017	1400	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-3D	794	n/a	9/20/2017	590	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-3S	794	n/a	9/20/2017	140	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-4	794	n/a	9/20/2017	710	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-5	794	n/a	9/18/2017	830	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-6	794	n/a	9/18/2017	510	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-7D	794	n/a	9/18/2017	340	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-7S	794	n/a	9/18/2017	240	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-8D	794	n/a	9/19/2017	350	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2

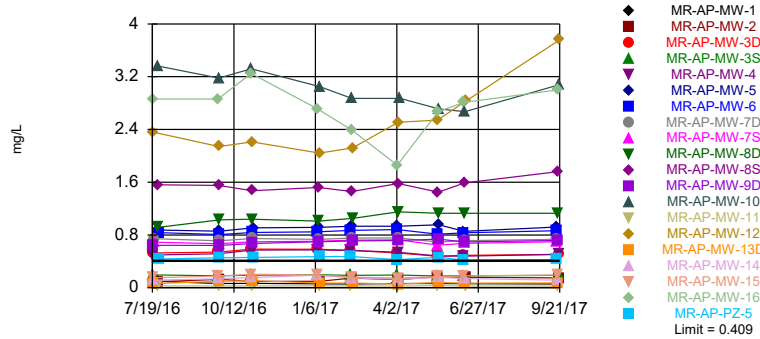
Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/24/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	MR-AP-MW-8S	794	n/a	9/19/2017	310	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-9D	794	n/a	9/19/2017	470	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-10	794	n/a	9/21/2017	660	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-11	794	n/a	9/19/2017	630	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-12	794	n/a	9/21/2017	1100	Yes	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-13D	794	n/a	9/19/2017	69	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-14	794	n/a	9/19/2017	41	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-15	794	n/a	9/19/2017	72	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-MW-16	794	n/a	9/19/2017	460	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MR-AP-PZ-5	794	n/a	9/18/2017	86	No	18	n/a	n/a	0	n/a	n/a	0.003993 NP Inter (normality) 1 of 2
TDS (mg/L)	MR-AP-MW-1	2063	n/a	9/19/2017	824	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-2	2063	n/a	9/20/2017	2500	Yes	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-3D	2063	n/a	9/20/2017	1180	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-3S	2063	n/a	9/20/2017	592	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-4	2063	n/a	9/20/2017	1270	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-5	2063	n/a	9/18/2017	1530	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-6	2063	n/a	9/18/2017	908	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-7D	2063	n/a	9/18/2017	770	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-7S	2063	n/a	9/18/2017	618	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-8D	2063	n/a	9/19/2017	700	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-8S	2063	n/a	9/19/2017	698	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-9D	2063	n/a	9/19/2017	824	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-10	2063	n/a	9/21/2017	1350	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-11	2063	n/a	9/19/2017	1140	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-12	2063	n/a	9/21/2017	2030	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-13D	2063	n/a	9/19/2017	315	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-14	2063	n/a	9/19/2017	230	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-15	2063	n/a	9/19/2017	266	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-MW-16	2063	n/a	9/19/2017	848	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2
TDS (mg/L)	MR-AP-PZ-5	2063	n/a	9/18/2017	616	No	18	6.116	0.5989	0	None	ln(x)	0.0003762 Param Inter 1 of 2

Exceeds Limit: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-M

Prediction Limit
Interwell Non-parametric

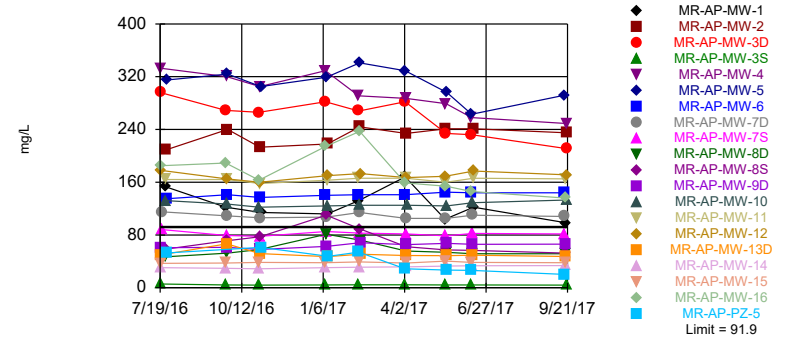


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. Annual per-constituent alpha = 0.1479. Individual comparison alpha = 0.003993 (1 of 2). Comparing 20 points to limit.

Constituent: Boron Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-M

Prediction Limit
Interwell Non-parametric

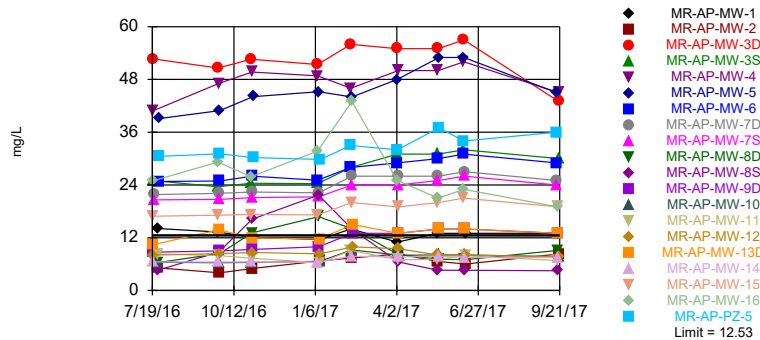


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. Annual per-constituent alpha = 0.1479. Individual comparison alpha = 0.003993 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-

Prediction Limit
Interwell Parametric

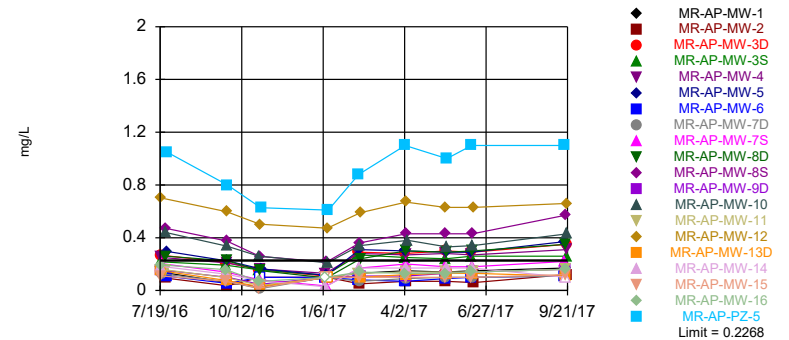


Background Data Summary: Mean=7.972, Std. Dev.=1.803, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.887, critical = 0.858. Kappa = 2.531 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Chloride Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-

Prediction Limit
Interwell Parametric

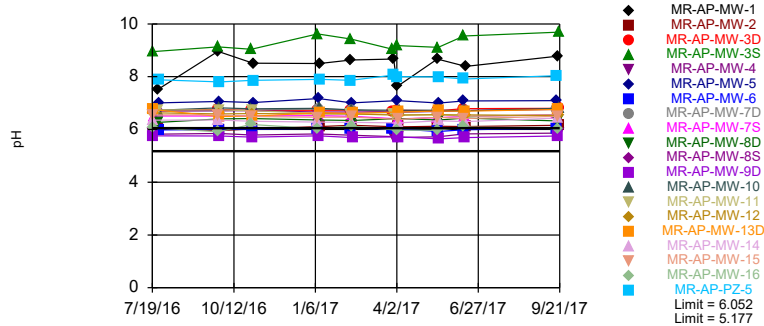


Background Data Summary: Mean=0.1108, Std. Dev.=0.04584, n=18, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9342, critical = 0.858. Kappa = 2.531 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Fluoride Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S...

Prediction Limit
Interwell Parametric

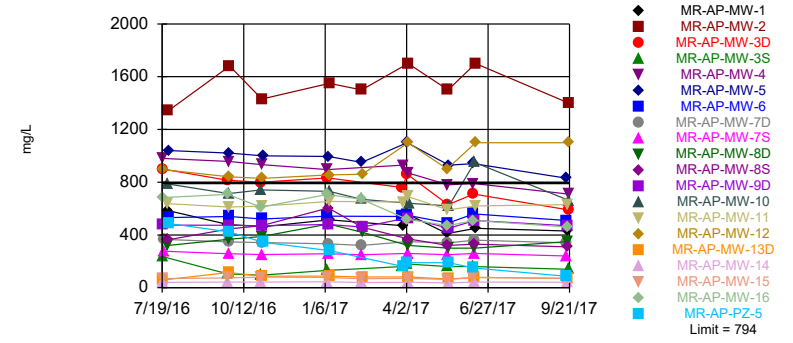


Background Data Summary: Mean=5.614, Std. Dev.=0.1728, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8718, critical = 0.858. Kappa = 2.531 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-2, MR-AP-MW-5, MR-AP-MW-12

Prediction Limit
Interwell Non-parametric

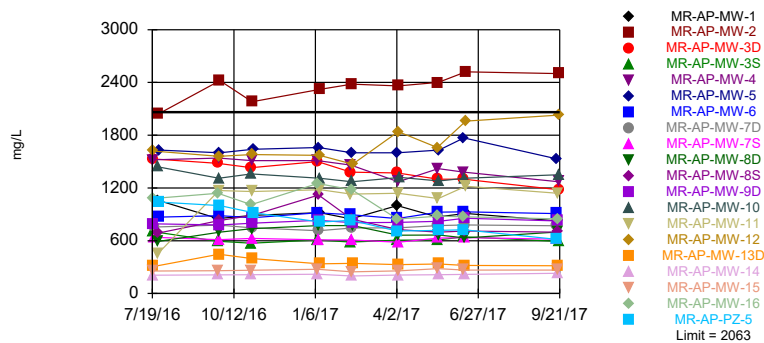


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. Annual per-constituent alpha = 0.1479. Individual comparison alpha = 0.003993 (1 of 2). Comparing 20 points to limit.

Constituent: Sulfate Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-2

Prediction Limit
Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=6.116, Std. Dev.=0.5989, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8611, critical = 0.858. Kappa = 2.531 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: TDS Analysis Run 1/24/2018 1:46 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Trend Test Summary Table - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 11/15/2017, 12:31 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)	MR-AP-MW-9S (bg)	0.1203	25	23	Yes	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-4	-72.01	-32	-23	Yes	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-6	8.342	24	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-6	7.103	29	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-7S	5.669	29	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-9D	4.823	28	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-15	3.372	24	23	Yes	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MR-AP-MW-5	-139.2	-24	-23	Yes	9	0	n/a	n/a	0.02	NP

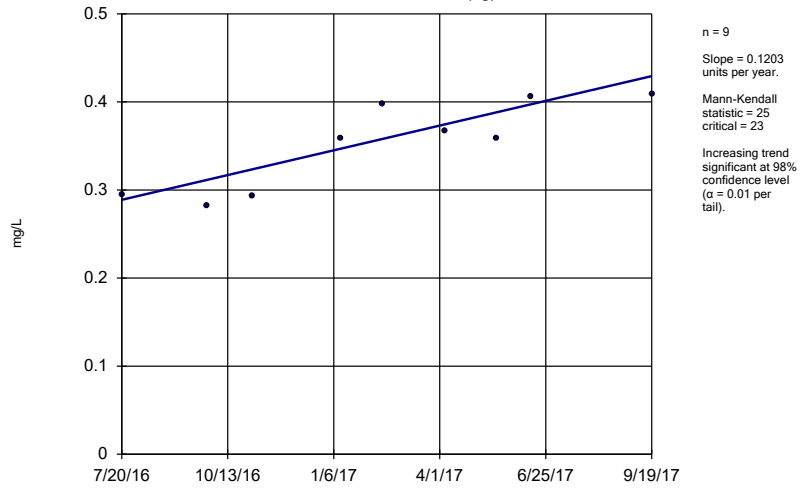
Trend Test Summary Table - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 11/15/2017, 12:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MR-AP-MW-3D	-0.06334	-15	-23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-4	-0.05075	-10	-23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-5	0.07028	13	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-6	0.02899	10	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-7D	-0.003577	0	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-7S	0.01542	5	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-8D	0.1703	23	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-8S	0.05426	6	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-9D	0.09083	23	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-9S (bg)	0.1203	25	23	Yes	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-10	-0.71	-23	-23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-12	0.9015	20	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-13S (bg)	0.01635	17	23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-MW-16	-0.09271	-5	-23	No	9	0	n/a	n/a	0.02	NP
Boron (mg/L)	MR-AP-PZ-5	-0.01637	-4	-23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-1	-23.7	-13	-23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-2	23.56	15	23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-3D	-60.62	-23	-23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-4	-72.01	-32	-23	Yes	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-5	-28.2	-12	-23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-6	8.342	24	23	Yes	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-7D	-3.976	-9	-23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-9S (bg)	-39.31	-21	-23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-10	3.253	6	23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-11	1.638	8	23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-12	5.88	6	23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-13S (bg)	1.576	20	23	No	9	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MR-AP-MW-16	-46.54	-20	-23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-1	-0.4468	-9	-23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-3D	3.161	7	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-3S	8.267	21	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-4	4.868	13	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-5	13.1	23	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-6	7.103	29	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-7D	4.599	23	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-7S	5.669	29	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-9D	4.823	28	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-9S (bg)	-2.683	-14	-23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-13D	2.299	12	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-13S (bg)	1.707	12	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-15	3.372	24	23	Yes	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-MW-16	-7.954	-14	-23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MR-AP-PZ-5	5.032	20	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-3D	0.119	19	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-3S	0.05481	13	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-4	0.08626	16	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-5	0.09756	9	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-8D	0.1317	19	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-8S	0.1528	11	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-9S (bg)	0.0853	18	23	No	9	11.11	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-10	0.04726	5	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-12	0.05821	5	23	No	9	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-MW-13S (bg)	0.02258	9	23	No	9	11.11	n/a	n/a	0.02	NP
Fluoride (mg/L)	MR-AP-PZ-5	0.3135	15	23	No	9	0	n/a	n/a	0.02	NP
pH (pH)	MR-AP-MW-9S (bg)	0.3653	19	23	No	9	0	n/a	n/a	0.02	NP
pH (pH)	MR-AP-MW-13S (bg)	-0.07566	-9	-23	No	9	0	n/a	n/a	0.02	NP
pH (pH)	MR-AP-MW-14	-0.03562	-4	-23	No	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MR-AP-MW-2	45.36	6	23	No	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MR-AP-MW-5	-139.2	-24	-23	Yes	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MR-AP-MW-9S (bg)	-410.6	-19	-23	No	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MR-AP-MW-12	148.9	21	23	No	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MR-AP-MW-13S (bg)	0	0	23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MR-AP-MW-2	379.7	22	23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MR-AP-MW-9S (bg)	-560.1	-20	-23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MR-AP-MW-13S (bg)	20.95	13	23	No	9	0	n/a	n/a	0.02	NP

Sen's Slope Estimator

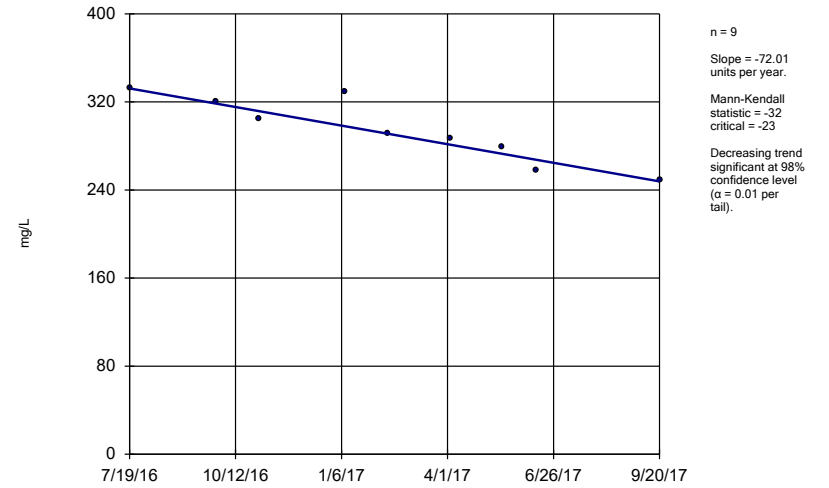
MR-AP-MW-9S (bg)



Constituent: Boron Analysis Run 11/15/2017 12:17 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

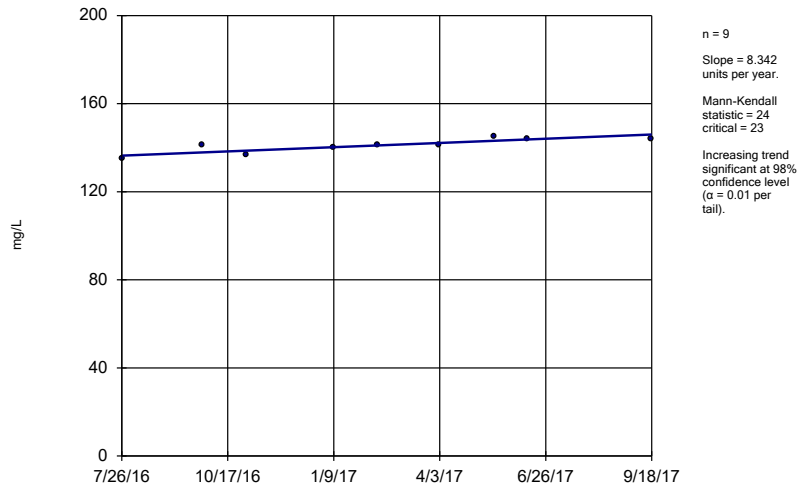
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Sen's Slope Estimator

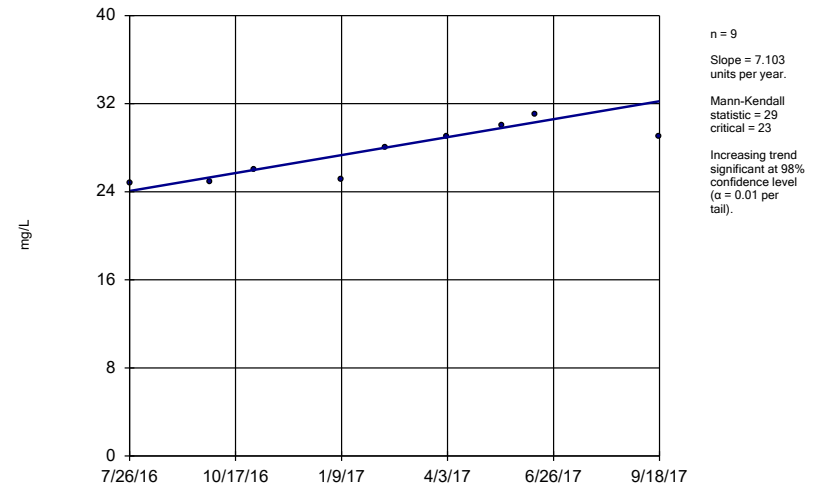
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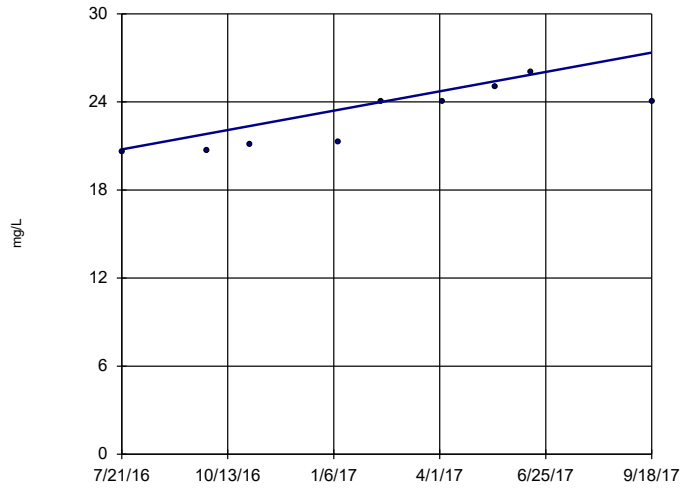
Sen's Slope Estimator

MR-AP-MW-6



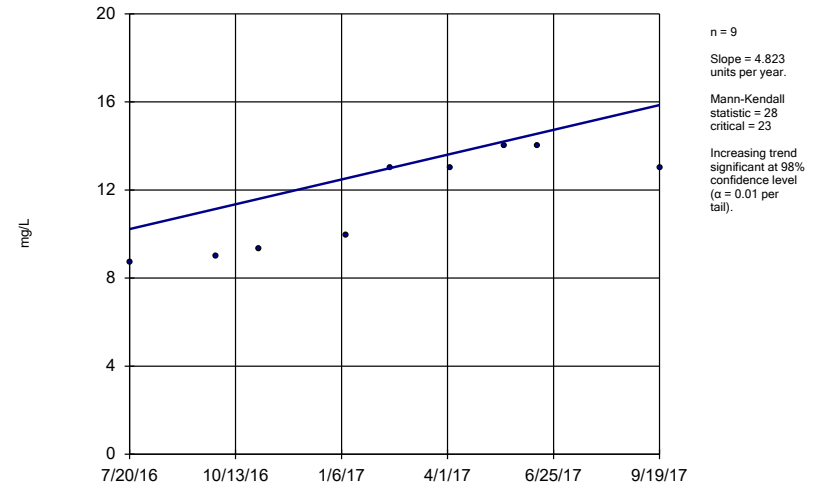
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Sen's Slope Estimator MR-AP-MW-7S



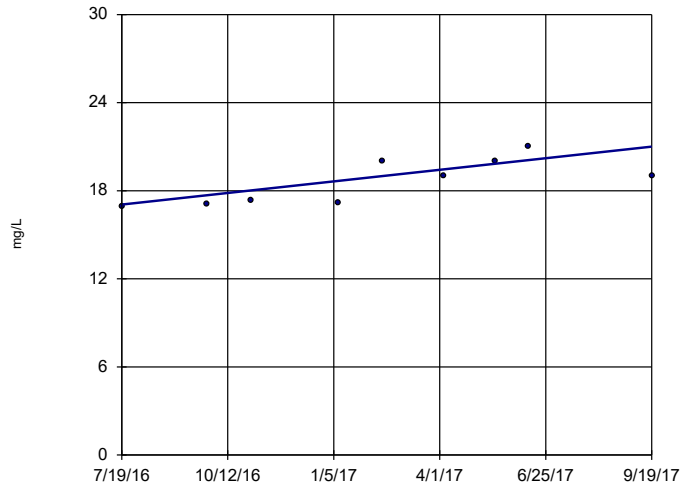
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Sen's Slope Estimator MR-AP-MW-9D



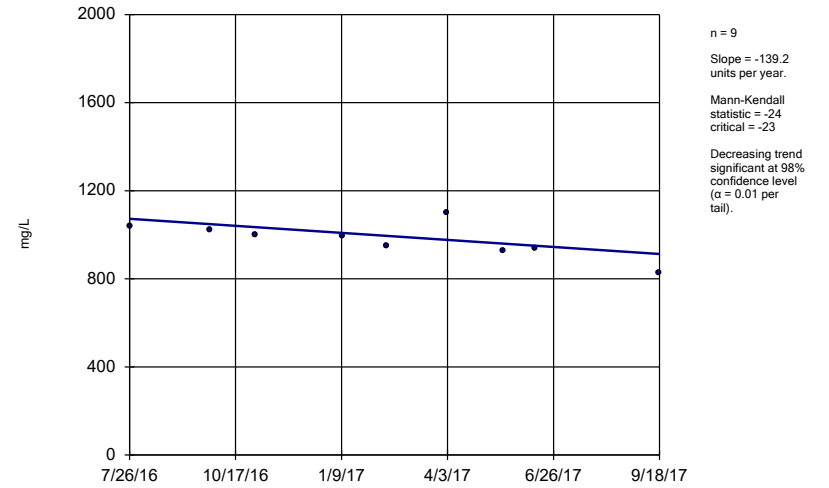
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Sen's Slope Estimator MR-AP-MW-15



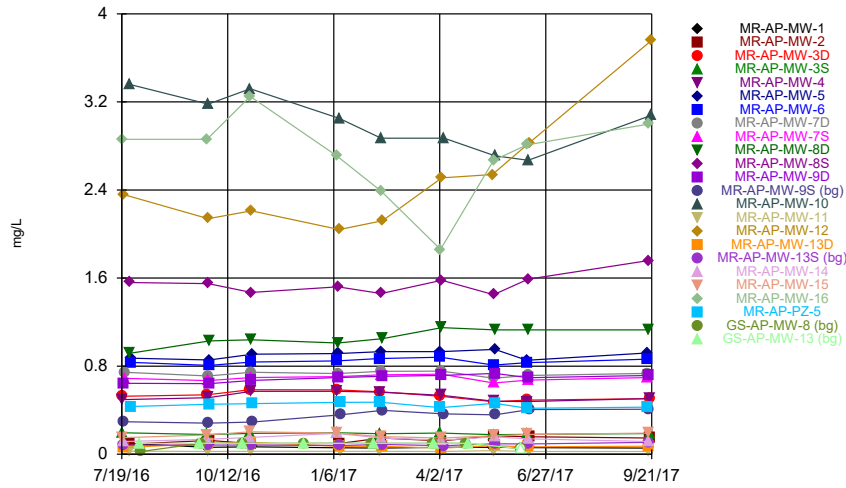
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Sen's Slope Estimator MR-AP-MW-5



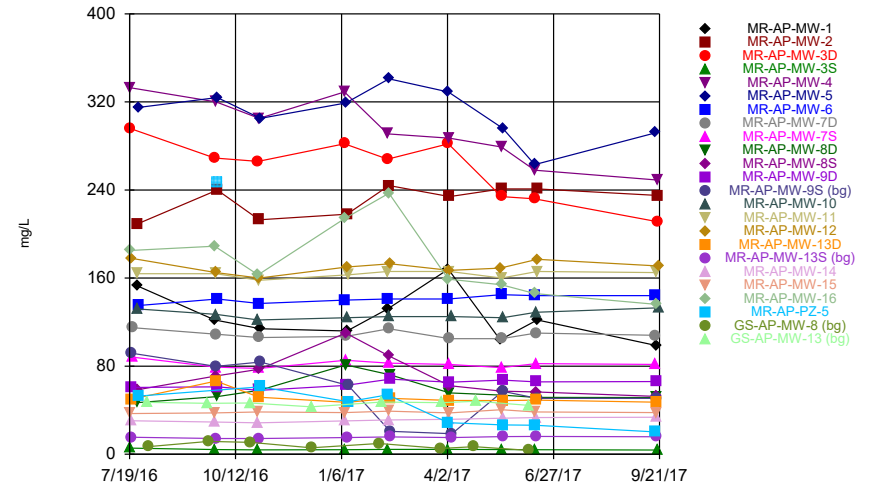
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Time Series



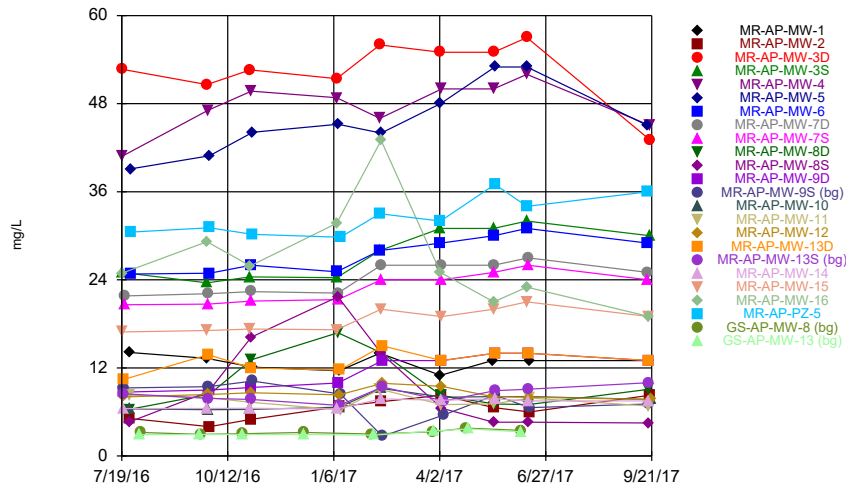
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Time Series



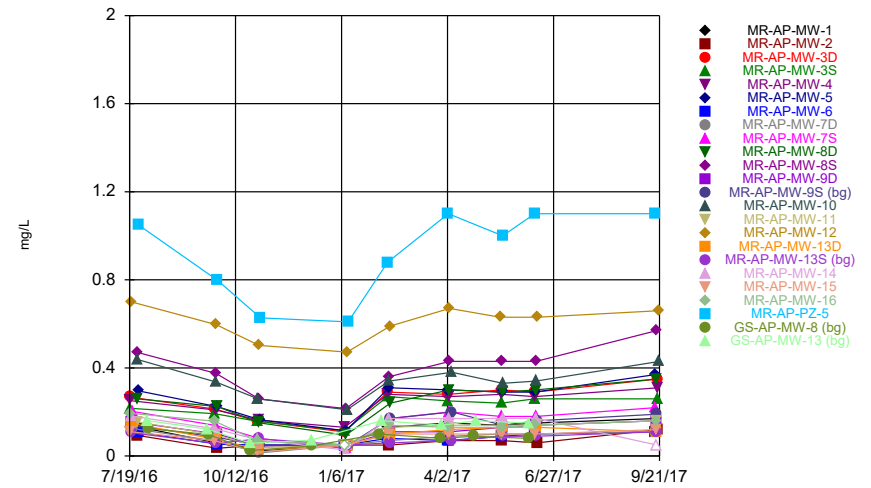
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Time Series



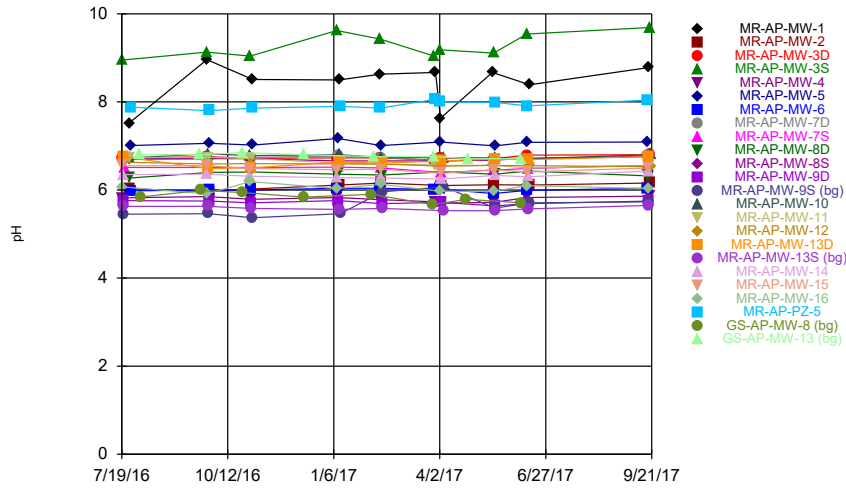
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Time Series



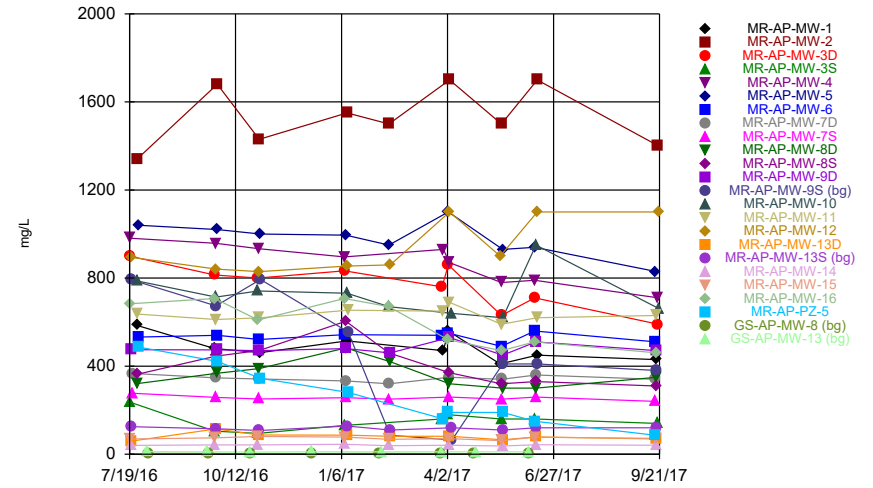
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Time Series



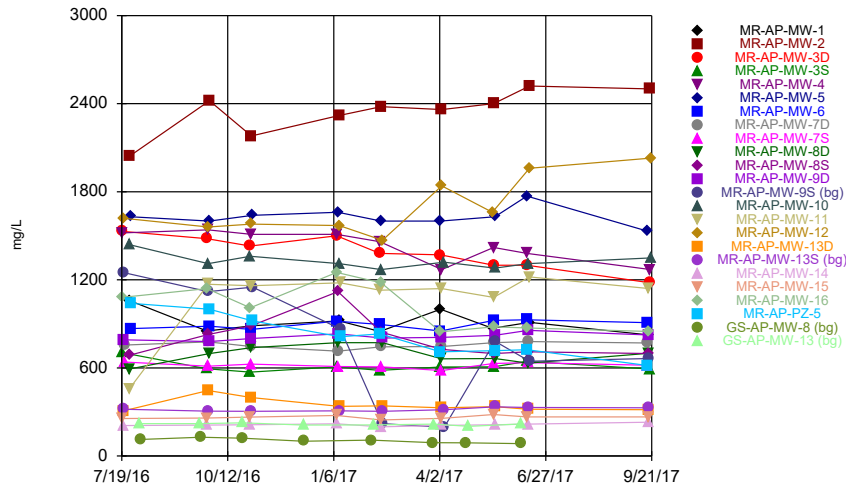
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Sulfate Analysis Run 11/15/2017 1:22 PM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: TDS Analysis Run 11/15/2017 1:22 PM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond