

**2019 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT MILLER
ASH POND**

January 31, 2020

Prepared for

Alabama Power Company
Birmingham, Alabama

By

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama's ADEM Admin. Code Ch. 335-13-15, this 2019 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2019 semi-annual assessment groundwater monitoring activities at the Plant Miller Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for Plant Miller Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6). The following summarizes results obtained from 2019 groundwater monitoring activities at the Site:

- The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSIs) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018.
- Statistically significant levels (SSLs) of Appendix IV parameters above groundwater protection standards (GWPS) have been identified during the 2019 semiannual monitoring events. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019 according to the requirements of § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7). The ACM was subsequently submitted to the Agency and posted to the Site's CCR compliance web Site.
- A plan for three additional upgradient monitoring locations was submitted to the Department in February 2019 and approved later in 2019. These three additional upgradient monitoring wells will be installed in 2020.
- Between November 2018 and March 2019, four horizontal delineation wells and two vertical delineation wells were installed and sampled to assess the extent of groundwater impacts. Three additional delineation wells did not produce sufficient groundwater for sampling and were converted to water level only piezometers. Details and findings were provided in the Plant Miller Ash Pond Groundwater Investigation Report submitted to ADEM in May 2019. Based on the results, additional delineation is planned at the site.

- The CCR Unit concluded the monitoring period in assessment monitoring and Alabama Power Company (APC) is evaluating potential groundwater remedies identified in the ACM. The following monitoring-related activities are planned for the CCR Unit:
 - Installation, sampling, and analyses of additional (Phase II) delineation wells,
 - Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, cobalt, and lithium as described in the ACM; and
 - Conduct the first semi-annual assessment monitoring event in the March or April of 2020 and submit a semi-annual groundwater monitoring report summarizing findings by July 31, 2020.

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ABBREVIATIONS

ACM	Assessment of Corrective Measures
ADEM	Alabama Department of Environmental Management
AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASD	Alternate Source Demonstration
ASTM	American Society for Testing and 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
GSA	Geologic Survey of Alabama
GW	Groundwater
GWPS	Groundwater Protection Standard(s)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MSL	mean sea level
MW-	denotes “Monitoring Well”
NCRDS	National Coal Resources Data System
NELAP	National Environmental Laboratory Accreditation
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PPM	Parts per million
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SM	Standard Method(s)
SSI	statistically significant increase
SSL	statistically significant level
TAL	Eurofins TestAmerica
TOC	top of casing
TDS	total dissolved solids
USGS	United States Geological Survey
UTL’s	Upper Tolerance Limits

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama's ADEM Admin. Code Ch. 335-13-15, this 2019 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2019 semi-annual assessment groundwater monitoring activities at the Plant Miller Ash Pond (Ash Pond) and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements of §§ 257.90 through 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

2.0 SITE LOCATION AND DESCRIPTION

APC'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.

2.1 SITE GEOLOGY AND HYDROGEOLOGY

2.1.1 Physical Setting

Plant Miller is located 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. **Figure 2, Site Topographic Map**, provides the topography of the Site.

2.1.2 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 Upper Pottsville Formation as shown on **Figure 3, Site Geologic Map** (Geologic Survey of Alabama, (GSA), 2010b). This formation is characterized by cyclic sequences (cyclothems) of marginal marine shale/claystone, siltstone, sandstone, conglomerates, and individual coal beds. These depositional cyclothems reflect 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 Upper 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. Upper Pottsville strata at Plant

Miller are on the southeast limb of the Sequatchie Anticline and dip to the southeast between 3° and 5°.

Figure 4, Geologic Cross-Section A-A', provides an illustration of the Pottsville Formation strata underlying the Site.

Bedrock discontinuities measured during geologic mapping and downhole geophysical surveys were statistically analyzed using lower-hemisphere equal-area stereonet to assess dominant orientations for joint sets and bedding. The average bedding from only geologic mapping measurements is 04°, 122° (dip, dip direction) or N32°E dipping 4°SE (quadrant strike/dip).

Typically, up to four different joint sets formed due to tectonic stresses imposed upon the bedrock. These joint sets can be classified as dip, strike, or oblique joints. Dip joints form parallel to bedding dip direction and are typically perpendicular to fold axes, representing extension that is perpendicular to the maximum principal stress direction or direction of compression. These joints are commonly near vertical. Strike joints develop parallel to the strike of bedding and fold axes, typically forming from tension along fold hinges. The dip direction and angle of these joints is nearly orthogonal to the dip direction and angle of bedding. Oblique joints commonly develop diagonal ($\pm 30^\circ$) to the principal stress direction and represent conjugate sets formed from shear. An additional joint set is present at the Site that is subparallel to bedding, which is interpreted to represent exfoliation or spheroidal weathering of the rock mass. The most prominent joint sets can be grouped into the following orientations:

Joint Set 1 (dip joint): 88°, 195°

Joint Set 2 (strike joint): 90°, 318°

Joint Set 3: rotated 81°, 221° to 82°, 248°

Joint Set 4 (subparallel bedding): 06°, 167°

The Pottsville aquifer system underlies the Site. The Pottsville aquifer system is comprised primarily of Pennsylvanian-age 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 system is commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). Recharge to the Pottsville formation is largely through infiltration of precipitation and to a lesser extent, downward seepage of river water at hydraulically favored locations.

Regionally, 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 (United States Geological Survey (USGS), 2005).

2.1.3 Pottsville Formation – Rock Chemistry

Published data indicate that elevated arsenic concentrations occur in the Southern Appalachian coal strata – where Site monitoring wells are screened. Numerous publications document elevated trace metals in Pottsville and Pottsville coal strata (Kolker et al., 1999, Diehl et al., 2004, Goldhaber et al., 2002). For instance, according to the USGS National Coal Data System (NRCDS) – the average concentration of arsenic (72 ppm) in the Pottsville coal strata is 3 times that of the average of other coal basins (Bragg et al., 1997). Of the US coal analyses for arsenic that are at least three standard deviations above the mean, approximately 90% are from the coal fields of Alabama (Diehl et al., 2004). The USGS maintains an inventory of coal quality which includes trace metal concentration data. A USGS Coal Quality Database search returned an arsenic concentration range of 1.08 mg/kg to 611.0 mg/kg for Walker County coals tested with an average of 47 mg/kg. For Jefferson County, the USGS Coal Quality Database searched returned an arsenic concentration range of 1.22 mg/kg to 122 mg/kg with an average of 36 mg/kg in Pratt, Gillespy-Curry, and Mary Lee Coal Groups in the vicinity of Plant Miller.

Similarly, 75 Pratt Coal Group samples (Pratt, Nickel Plate, and American Coal Seams) analyzed by the USGS and inventoried in the USGS National Coal Resource Data System (NRCDS) provided the following ranges of other trace metals:

- Boron – 6.3 to 83.6 ppm (Average of 35 ppm)
- Cobalt – 1.6 to 19.8 ppm (Average of 8 ppm)
- Molybdenum – 0.8 to 22.2 ppm (Average of 5 ppm)
- Lithium – 1.4 to 128 ppm (Average of 28 ppm).

Bulk geochemical analyses of Pottsville stratigraphy from Plant Miller were conducted on recovered core. The data reflect arsenic concentrations between 4.4 mg/kg and 64.6 mg/kg in Pottsville core analyzed. Similarly, 21 Pottsville samples collected from the Site provided the following ranges of other trace metals:

- Boron – 10.3 to 92.8 ppm (Average of 37 ppm)
- Cobalt – 5.4 to 21.2 ppm (Average of 12 ppm)
- Molybdenum – non-detect to 1.9 ppm (Average of 0.6 ppm).

Trace metal enrichment and pyrite origins have been linked to post-depositional (post-coalification) deformation and trace metal laden hydrothermal fluids upwelling during Alleghenian tectonism. Diehl et al., (2004) and Goldhaber et al., (2002) describe “high-pyrite” coals as a source of elevated arsenic and other trace metals. In these publications, pyrite occurrence is observed within coal banding, woody cellular fill structures, mineral overgrowths and structural fills such as veins and microfaults.

2.1.4 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 Upper 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 sources 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 below ground surface (BGS).

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).

2.1.5 Flow Interpretation

Groundwater flow is accomplished primarily by means of fracture flow, where groundwater flows along more conductive secondary discontinuities in the rock mass such as weaknesses along bedding planes, joints

or cleat fabric in coal seams. Fractures at the Site are typically high-angle/near vertical (80° to 90°). Fracture flow in complex geologic media such as the heterogenous Pottsville Formation can be complex. Groundwater in the Pottsville aquifer is most commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). The Pottsville at the Site is probably better described as a series of discrete, confined to semi-confined groundwater yielding zones where groundwater elevations can vary significantly laterally and vertically and are governed by the heterogeneity of the lithology and degree of fracture network interconnectivity.

Historic potentiometric data suggests that groundwater generally flows radially away from the Site in the Gillespy-Pratt aquifer and to the west in the deeper Mary Lee aquifer beneath the Site. Hydraulic conductivity in the uppermost aquifer typically ranges between 10^{-4} to 10^{-5} cm/sec with an average 6.15×10^{-4} cm/sec.

2.2 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Miller has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The 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, and downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers”, ASTM Subcommittee D18.21, as a guideline. As required by § 257.90(e) and ADEM Admin Code r. 335-13-15-.06(1)(f), the following also describes monitoring related-activities performed during the preceding year.

2.2.1 Monitoring Wells

Historically, the groundwater monitoring network has been comprised of 24 monitoring wells. In 2019, the installation of nine additional delineation wells was accomplished for purposes of horizontal and vertical delineation of Site groundwater impacts. Of these new delineation locations, six produced sufficient groundwater to be developed and sampled and will be sampled in future monitoring events as part of the routine compliance monitoring network. The remaining three delineation locations lacked sufficient groundwater for development and therefore, will be utilized as water-level only piezometers for future monitoring events. Additionally, one additional upgradient monitoring wells was installed for purposes of

establishing background groundwater quality data for the monitored groundwater flow regimes within the Pottsville Formation at the Site.

Monitoring well locations are presented on **Figure 5, Monitoring Well Location Map. Table 1, Groundwater Monitoring Well Network Details**, summarizes the monitoring well construction details and design purpose for the Plant Miller Ash Pond.

2.2.1.1 Upgradient Wells

As described in **Section 2.1.5** there are multiple groundwater flow regimes within the Pottsville Formation at the Site: (1) the upper Gillespy-Pratt regime and (2) a deeper Mary Lee regime. Both of these groundwater flow systems, as evaluated by potentiometric data, appear to have radial flow components away from the Site, and are not suitable for upgradient designations.

Therefore, background groundwater quality data for the monitored formations is provided by wells GS-AP-MW-8 and GS-AP-MW-13 installed at the nearby Plant Gorgas Ash Pond. These locations are suitable as upgradient locations due to (1) placement in similar geology (Pratt Coal Group Strata – same at both Sites) and (2) screened intervals at these wells monitor recharging groundwater that has not been impacted by either Site.

Appendix III (Detection monitoring parameters) constituent concentrations along with select other Appendix IV CCR indicator parameters were also evaluated as further basis for designating locations GS-AP-MW-8 and GS-AP-MW-13 as upgradient. In general, concentrations of CCR indicator parameters reported for these well locations are well below published Groundwater Protection Standards (GWPS), downgradient wells, and pore-water (source) concentrations. The absence of elevated concentrations of CCR indicator parameters indicates younger, recharging groundwater and groundwater that has not been impacted by groundwater flowing away from the Ash Pond. This data, along with groundwater elevation data, supports an upgradient designation for locations GS-AP-MW-8 and GS-AP-MW-13.

A plan for three additional upgradient locations (closer to the Site) was submitted to the Department in February 2019 and approved later in 2019. These three additional upgradient monitoring wells (MR-AP-MW-21 through MR-AP-MW-23) are proposed approximately 2 miles WNW of Plant Miller. These proposed locations were chosen based upon similar position on the Sequatchie Anticline and APC land

ownership. These locations sit on the opposite limb of the Sequatchie Anticline, but at similar elevation, structural, and stratigraphic setting. It is unknown if historic mining removed all coal strata, but at a minimum, similar strata should be encountered as is downgradient of the Plant Miller Ash Pond. The installation and development of monitoring well MR-AP-MW-21 has been completed. Monitor wells MR-AP-MW-22 and MR-AP-MW-23 were being installed and developed at the time of publication. A report summarizing findings will be submitted to the Department in the first half of 2020.

2.2.1.2 Downgradient Wells

Historically, the groundwater monitoring network has been comprised of 22 downgradient monitoring wells installed along the boundary of the Ash Pond. Borehole geophysics, hydrophysical logging, and occasionally, packer testing were utilized to determine well screen intervals. These logging techniques identify groundwater flow zones in open boreholes and are optimally suited for use in low-yielding, fractured rock media. Heat-pulse flowmeter logging or packer testing were often utilized to assess or further evaluate flow zones indicated by hydrophysical logging tools. If multiple flow zones were identified, then paired wells were often installed to screen both zones.

Preferential groundwater flow away from the Site, if existing, would occur within zones of enhanced permeability - such as cleated coals or zones of intersecting rock discontinuities spatially located lateral to or beneath the base of the Ash Pond. Strata of the Gillespy - Pratt Coal Groups are the uppermost aquifer lateral to or beneath the base of the Ash Pond as indicated by borehole logging and geophysics in central and southern portions of the Site. To the north, Pratt Coal Group strata exist above ground surface or are absent. In these areas, downgradient monitoring well locations were installed across the first groundwater yielding fractures identified by borehole geophysics or within the deeper Mary Lee coal seam.

Monitoring well locations are presented on **Figure 5, Monitoring Well Location Map. Table 1, Groundwater Monitoring Well Network Details**, summarizes the monitoring well construction details and design purpose for the Ash Pond.

2.2.1.3 Piezometers

There are currently three water-level only piezometers at the Site (MR-AP-MW-2V, MR-AP-MW-3V, and MR-AP-MW-19H). These locations were originally intended as delineation locations but did not yield sufficient groundwater for development or sampling and thus, have been converted to piezometers. **Figure**

5, Monitoring Well Location Map. Table 1, Groundwater Monitoring Well Network Details, summarizes the monitoring well construction details and design purpose for the Plant Miller Ash Pond. These locations will be evaluated during the first half of 2020 to determine if they yield representative groundwater levels and if alternative sampling methods (i.e., no-purge sampling) can be utilized to collect representative groundwater samples.

2.2.1.4 Delineation Wells

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g), and Alabama Administrative Order AO 18-098-GW, additional monitoring wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. Four horizontal delineation wells were installed and sampled to assess lateral extent of groundwater impact in the direction(s) of groundwater flow away from the facility. Two vertical delineation wells were installed and sampled to assess potential vertical impacts to the uppermost aquifer proximal to the CCR waste boundary.

Field work and sampling were conducted between November 2018 and March 2019. Data and discussion of results were provided in the Plant Miller Ash Pond Groundwater Investigation Report submitted to ADEM in May 2019. A summary of well installation dates, location, elevation, screen interval, and purpose are provided in **Table 1 and Figure 5**. A plan for additional delineation was submitted to the Department in August 2019 and field work to support additional delineation was on-going at the time of publication.

2.2.1.5 Monitoring Well Replacement and Abandonment

There have been no abandonment and replacement activities at the Site during 2019.

2.2.1.6 Monitoring Variances

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

1. retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter; and

2. authorizes the use of Federally-published GWPS of 0.006 milligrams per liter (mg/L) for cobalt; 0.015 mg/L for lead; 0.040 mg/L for lithium; and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

2.2.2 Groundwater Monitoring History

Background groundwater samples were collected over the period of July 2016 to June 2017. Semi-annual groundwater monitoring was initiated at the Ash Pond in September 2017.

2.2.2.1 Available Monitoring Data

In accordance with § 257.94(b) and ADEM Admin. Code r. 335-13-15-.06(5)(b), eight (8) independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background sampling was performed over the period of July 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in September 2017.

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

Any well installed for Site investigation and delineation subsequent to identifying statistical exceedances in groundwater data is incorporated into the semi-annual groundwater monitoring program.

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

2.2.2.2 Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events. Downgradient wells indicate a radial flow pattern away from the Site within deeper rock units lateral to or below the base of the Ash Pond. Groundwater elevations fluctuate

in response to rainfall. Seasonal variations of 1 to 10 feet are typical at the Site based upon available monitoring data.

2.2.3 Groundwater Sampling and Analysis

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the preceding year. As described in **Section 2.2.2.1**, the Site entered an Assessment Monitoring program pursuant to 40 CFR §257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a) in January 2018. Statistical evaluations of 2018 assessment monitoring data identified Appendix IV constituents above the GWPS at statistically significant levels (SSLs) and the Site prepared Assessment of Corrective Measures (ACM). Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-098-GW additional monitoring wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. These wells along with the compliance monitoring well network are sampled semi-annually.

2.2.3.1 Sampling Event Summary

Semi-annual assessment monitoring sampling events occurred in April-May 2019 and August-September 2019. Delineation wells installed at the Site were sampled semi-annually for the first-time during March 2019, in order expedite delineation reporting, and then aligned with the routine semi-annual sampling schedule during the second semi-annual assessment sampling event in September 2019.

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

2.2.3.2 Groundwater Sample Collection

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

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

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

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

2.2.3.3 Sample Preservation and Handling

Groundwater samples were collected within the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory.

Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 4°C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

2.2.3.4 Chain of Custody

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

2.2.3.5 Laboratory Analysis

Laboratory analyses was performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama or Eurofins TestAmerica, 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. **Table 2, Monitoring Parameters and Reporting Limits**, lists Assessment Monitoring constituents analyzed at the Site. Groundwater data and chain of custody records for the monitoring events are presented in **Appendix A**.

3.0 GROUNDWATER ELEVATIONS

3.1 GROUNDWATER ELEVATIONS AND FLOW

During the April 2019 sampling event, depths to water ranged from artesian to 224.93 feet below top of casing (ft BTOC) and groundwater elevations ranged from 424.23 to 258.63 ft MSL. During the August-September 2019 sampling event, depths to water ranged from artesian to 228.63 ft BTOC and groundwater elevations ranged from 420.93 to 254.92 ft MSL. It should be noted that the April 2019 groundwater elevation data set does not include delineation well groundwater elevations. A complete first set of groundwater elevations was obtained in March 2019 and included in the Groundwater Delineation report submitted to the Department in May 2019.

Figure 6A and Figure 6B, Potentiometric Surface Contour Map (April 22, 2019) and Figure 7A and Figure 7B, Potentiometric Surface Contour Map (August 26, 2019) depict groundwater elevations and inferred groundwater flow direction. A number of delineation wells installed monitor discrete zones or fractures that do not appear connected to either the Mary Lee or Pratt-Gillespy Aquifer at the site and therefore, were not used in potentiometric surfaces constructed for these aquifers. All available groundwater elevation data recorded since 2016 have been tabulated and included in **Table 3, Groundwater Elevation Summary**.

3.2 GROUNDWATER FLOW VELOCITY CALCULATIONS

Because the geology at the Ash Pond is not homogeneous or isotropic with respect to groundwater flow, groundwater velocity calculations using derivations of Darcy's Law are not applicable to groundwater at the Site. The hydrogeologic characteristics of fractured rock typically produce preferential groundwater flow paths, so groundwater velocity is much more variable than in uniform porous media such as sand. During monitoring well installation, multiple techniques were used to successfully intercept groundwater flow paths with the monitoring wells located around the Ash Pond. These flow paths correspond to coal cleats/fractures, zones of fracture concentration, bedding planes, and other discontinuities in the rock. Therefore, groundwater flow velocity at the Site cannot be accurately quantified using existing Site data.

Aquifer performance testing including slug tests have been conducted to characterize hydraulic conductivity values at the Site. Slug and packer testing provided horizontal hydraulic conductivities for the uppermost aquifer between 1.00×10^{-3} cm/sec and 6.00×10^{-7} cm/sec. Hydraulic conductivity in the uppermost aquifer typically ranges between 10^{-4} to 10^{-5} cm/sec with an average 6.15×10^{-4} cm/sec.

The lowest estimated hydraulic conductivity value of 6×10^{-7} cm/sec was derived from packer testing performed at borehole MR-AP-MW-3D (interval 170 ft to 226 ft) and borehole MR-AP-MW-4 (interval 80 ft to 137 ft). The measured recovery for these tests was on the order of one percent. This is indicative of a relatively closed system where fractures, if any, are poorly connected to the surrounding groundwater flow system. The complex lithostratigraphy, sharp permeability contrasts, and fractured nature of the Pottsville Formation contribute to vertical groundwater flow at the Site as well confining to semi-confining conditions evidenced in the spatial distribution of hydraulic heads.

4.0 EVALUATION OF GROUNDWATER QUALITY DATA

4.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every group of 10 well samples. Equipment blanks and duplicate samples were also collected during each sampling event.

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where the relative percent differences below 20%, the difference is considered acceptable and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during 2019 sampling events. All RPD's were below 20% for the most recent sampling event.

Data from all equipment and field blanks were reviewed for purposes of QA/QC. All equipment and field blank data were below laboratory detection limits and data validation was not required.

4.2 STATISTICAL METHODOLOGY AND TESTS

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

4.2.1 Appendix III Evaluation

Intrawell prediction limits, combined with a 1-of-2 verification strategy, are used for pH to determine whether there has been a statistically significant increase (SSI) over background groundwater quality. Interwell prediction limits, combined with a 1-of-2 verification strategy, are used to evaluate boron, calcium, chloride, fluoride, sulfate, and TDS. Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at that well. The most recent sample from the same well is compared to its respective background to identify SSIs over background. 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 identify SSIs.

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

The following adjustments are also part of the statistical analysis:

- No statistical analyses are required on wells and 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 is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data.

4.2.2 Appendix IV Evaluation

When in assessment monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA – this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit),

Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the Interwell Tolerance limit (i.e. background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

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

As described in 40 CFR § 257.95(h)(1)-(3) and the ADEM Variance (see section **2.2.1.6**), the GWPS is:

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

In assessment monitoring, when the Lower Confidence Limit (LCL), or the entire interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. Appendix IV constituents will be updated every two years beginning with the most recent event (Fall 2019). The next update to GWPS will occur no earlier than the Fall of 2021. Data from upgradient wells collected in between updates may still be used to support ASDs if merited.

4.3 STATISTICAL EXCEEDANCES

Analytical data from the 2019 semi-annual monitoring events in April-May and August-September were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017). Appendix III statistical analysis was performed to determine if constituents have returned

to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

4.3.1 Appendix III Constituents

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

4.3.2 Appendix IV Constituents

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

The following subsections describe statistical exceedances during 2019 monitoring events.

4.3.2.1 First Semi-Annual Groundwater Monitoring Event

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

- MR-AP-MW-1: Lithium
- MR-AP-MW-2: Cobalt, Lithium
- MR-AP-MW-3D: Arsenic, Lithium
- MR-AP-MW-3S: Lithium
- MR-AP-MW-4: Cobalt, Lithium
- MR-AP-MW-5: Arsenic, Lithium
- MR-AP-MW-6: Cobalt, Lithium
- MR-AP-MW-7D: Lithium
- MR-AP-MW-7S: Lithium
- MR-AP-MW-9D: Cobalt, Lithium
- MR-AP-MW-9S: Lithium
- MR-AP-MW-10: Lithium
- MR-AP-MW-11: Lithium
- MR-AP-MW-12: Lithium
- MR-AP-MW-13S: Cobalt, Lithium

- MR-AP-PZ-5: Lithium

Table 6, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first semi-annual sampling event. Statistical reporting output is included as **Appendix C**.

4.3.2.2 Second Semi-Annual Groundwater Monitoring Event

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

- MR-AP-MW-1: Lithium
- MR-AP-MW-2: Cobalt, Lithium
- MR-AP-MW-3D: Arsenic, Cobalt, Lithium
- MR-AP-MW-3S: Lithium
- MR-AP-MW-4: Cobalt, Lithium
- MR-AP-MW-5: Arsenic, Lithium
- MR-AP-MW-6: Cobalt, Lithium
- MR-AP-MW-7D: Lithium
- MR-AP-MW-7S: Lithium
- MR-AP-MW-9D: Cobalt, Lithium
- MR-AP-MW-9S: Lithium
- MR-AP-MW-10: Lithium
- MR-AP-MW-11: Lithium
- MR-AP-MW-12: Lithium
- MR-AP-MW-13S: Cobalt, Lithium
- MR-AP-PZ-5: Lithium

Table 7, Second Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the second semi-annual sampling event. Statistical reporting output is included as **Appendix C**.

To address SSLs at the site an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, lithium, and molybdenum in groundwater at the site in accordance with § 257.96,

ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-098-GW. The ACM was submitted to the Department and placed in the operating record on June 12, 2019.

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

- MR-AP-MW-4V: Lithium, Cobalt
- MR-AP-MW-6V: Arsenic, Lithium
- MR-AP-MW-17H: Lithium
- MR-AP-MW-18H: Lithium
- MR-AP-MW-20HS: Lithium
- MR-AP-MW-20H: Lithium

Details regarding the installation and sampling of these wells, and future proposed delineation as a result of these exceedances, were submitted to the Department in the Plan Miller Groundwater Investigation Report on May 13, 2019. **Table 8 Second Semi-Annual Monitoring Event Analytical Summary**, provides a summary of all detected constituents for the second semi-annual sampling event.

5.0 MONITORING PROGRAM STATUS

The Site is currently in assessment monitoring and evaluating groundwater corrective action alternatives described in the ACM. In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Plant Miller Ash Pond during sampling events conducted in 2018. ASDs were not completed for Appendix IV constituents exceeding the GWPS; therefore, in accordance with § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4(i), APC completed an ACM as required by § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-098-GW.

6.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events took place in April-May and August-September 2019. Statistical evaluations of the 2019 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. The site remains in assessment monitoring while groundwater corrective remedies are being evaluated. Additional monitoring wells were installed to assess the horizontal and vertical extent of groundwater impacts at the site. The results of this investigation were submitted to ADEM in May 2019 and further delineation is necessary. These additional monitoring wells will continue to be sampled and analyzed as part of the ongoing assessment monitoring program.

An ACM was completed on June 12, 2019 to address SSLs of Appendix IV above groundwater protection standards.

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

- Installation, sampling, and analyses of additional (Phase II) delineation wells,
- Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, cobalt, and lithium as described in the ACM; and
- Conduct the first semi-annual assessment monitoring event in the March or April of 2020 and submit a semi-annual groundwater monitoring report summarizing findings by July 31, 2020.

7.0 REFERENCES

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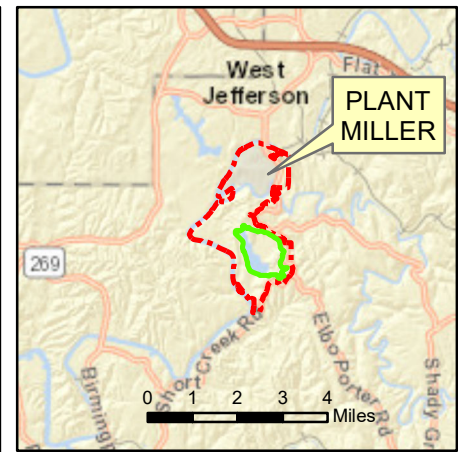
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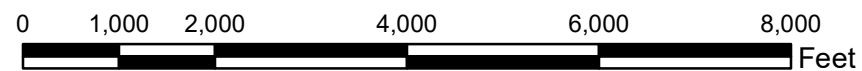
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Figures



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



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DATE 12/19/2019

DRAWN BY KWR

CHECKED BY GBD

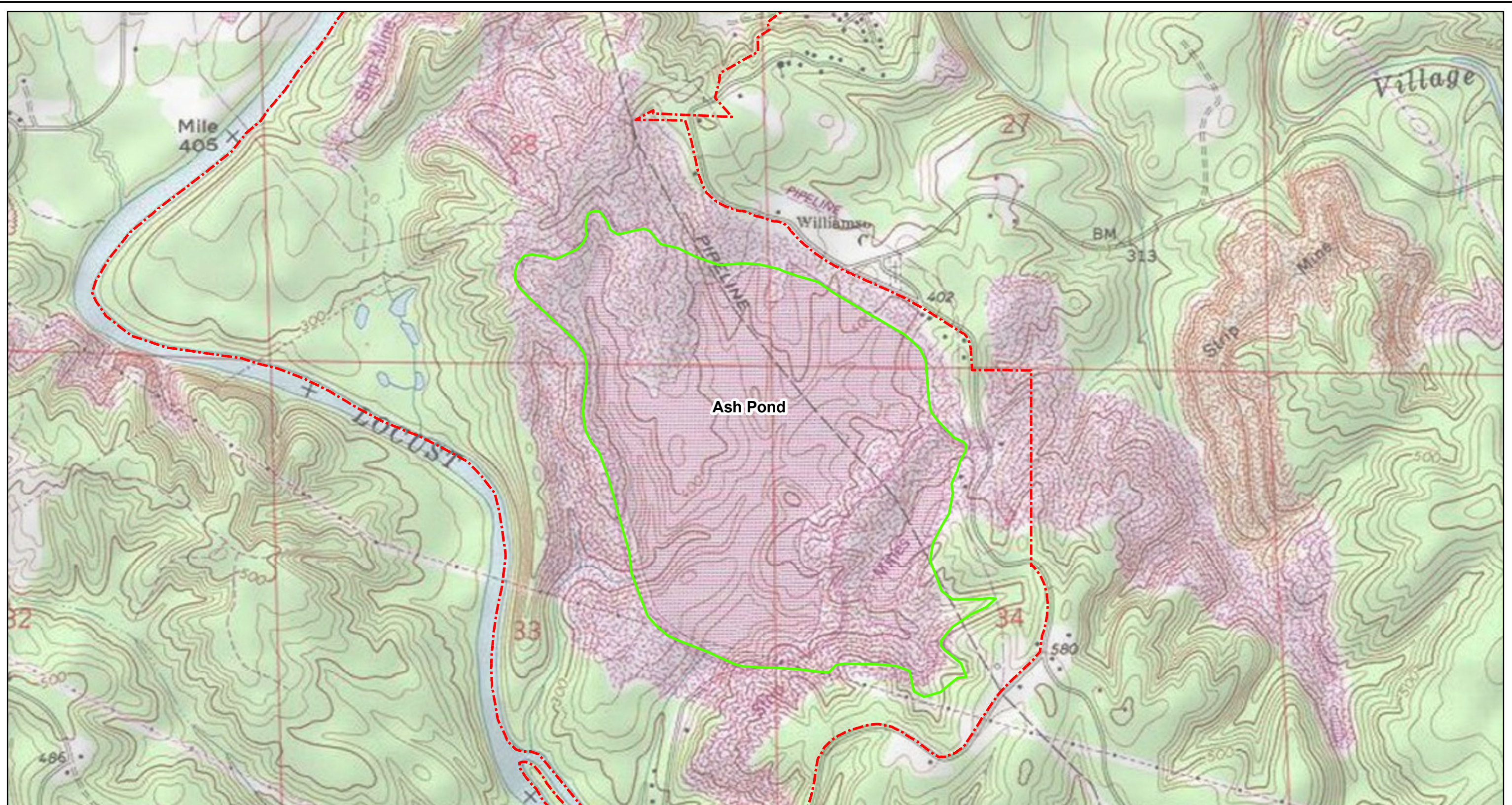
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**SITE LOCATION MAP
PLANT MILLER ASH POND**

FIGURE NO

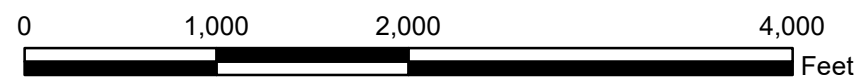
FIGURE 1





Legend

- Property Boundary (Approximate)
- Ash Pond Boundary

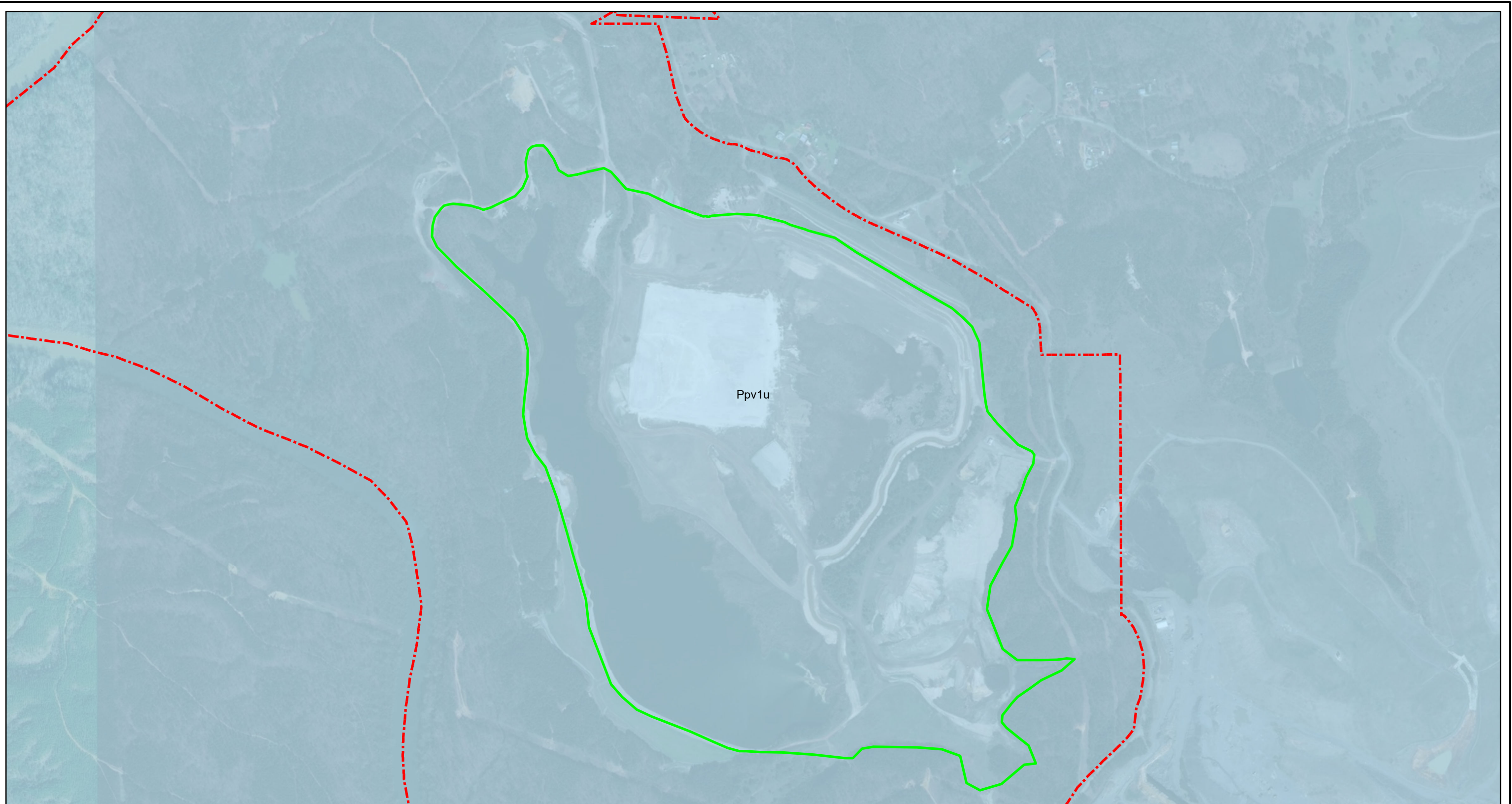


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DATE	12/19/2019
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE
**SITE TOPOGRAPHIC MAP
 PLANT MILLER ASH POND**

FIGURE NO
FIGURE 2



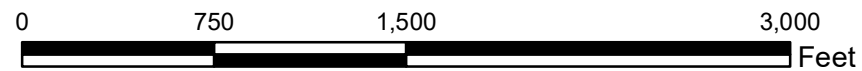


Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Units

- Pottsville Formation (upper part), Appalachian Plateaus (Ppv1)



SCALE 1:9000

DATE 12/19/2019

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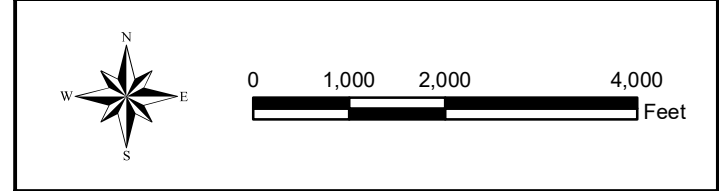
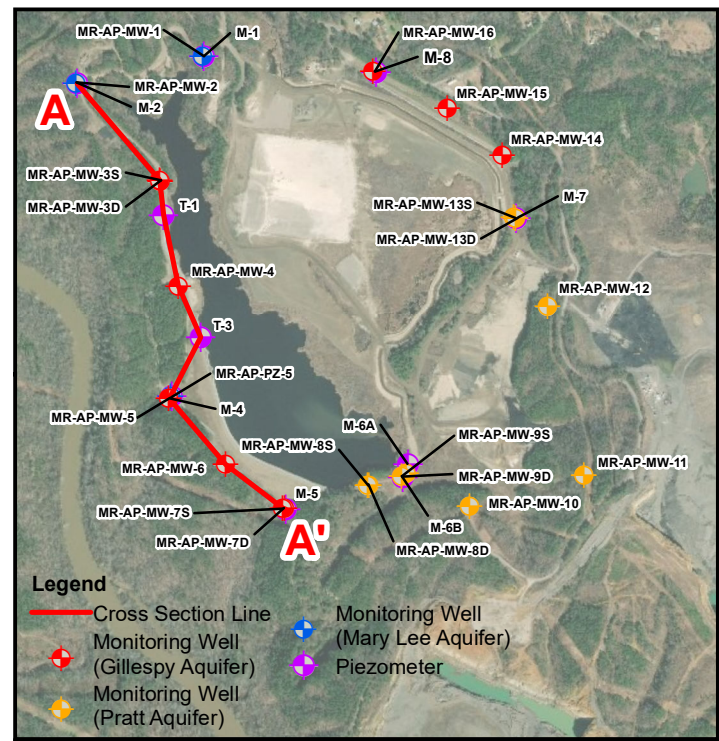
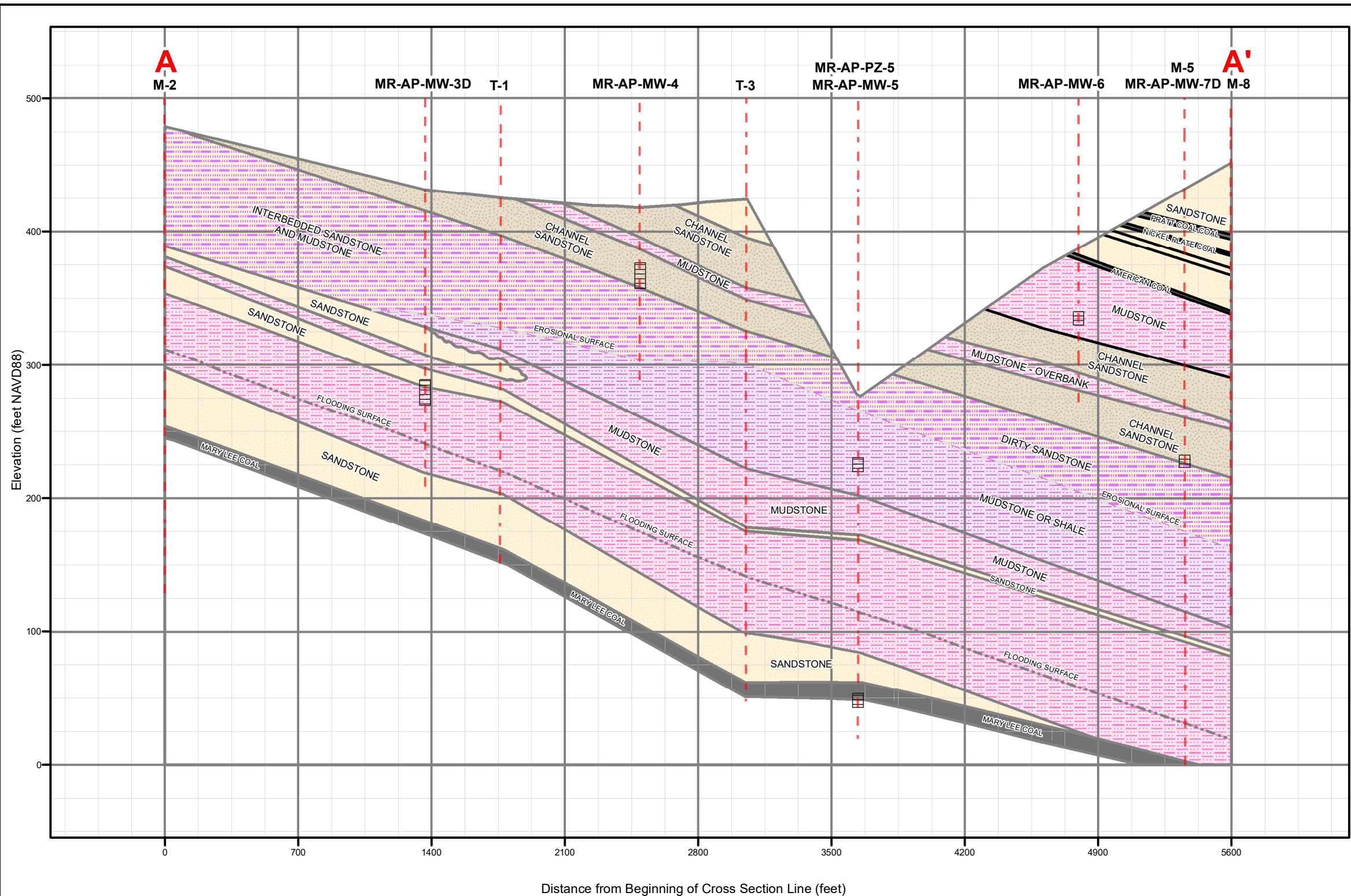
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**SITE GEOLOGIC MAP
PLANT MILLER ASH POND**

FIGURE NO

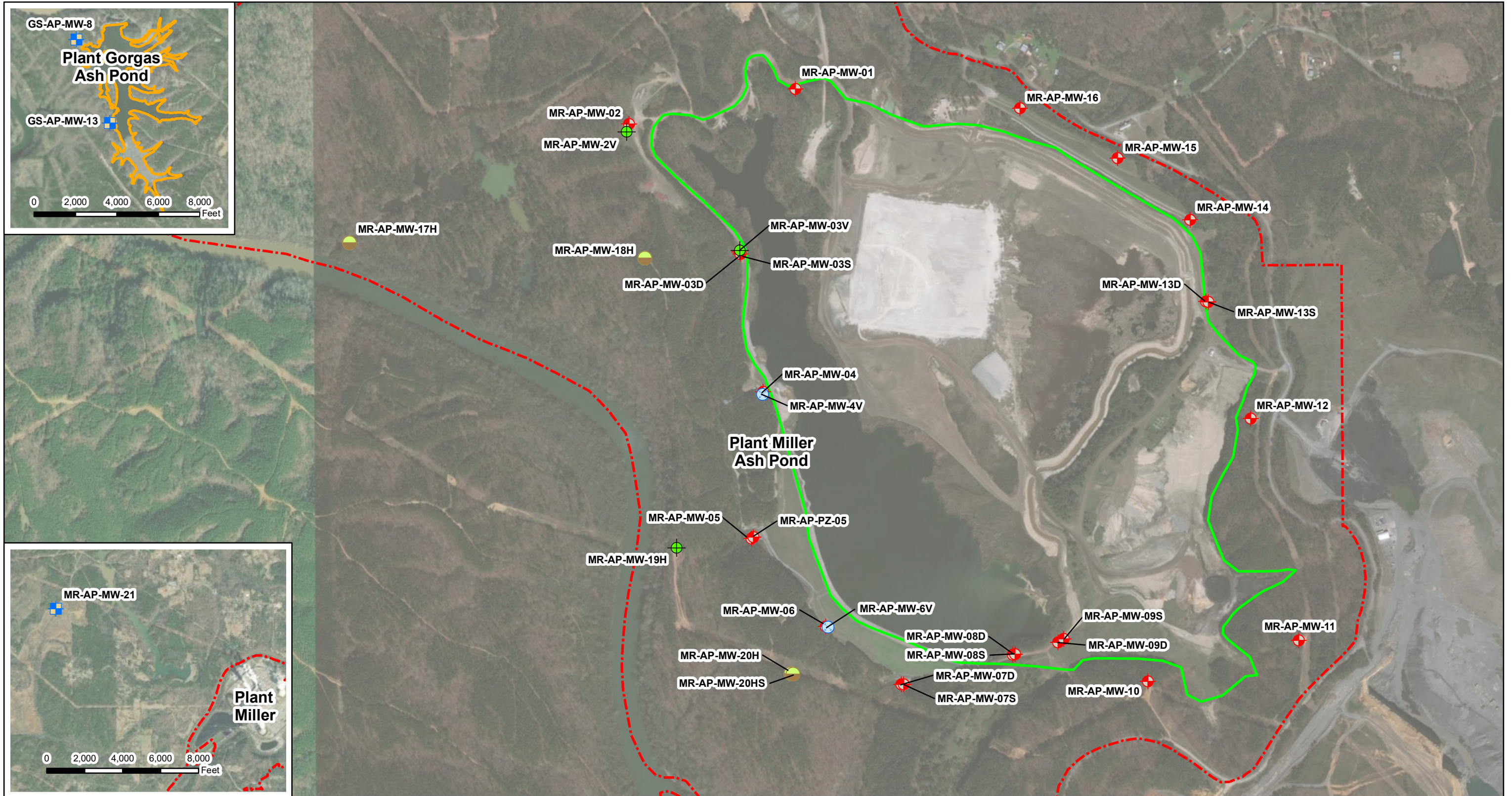
FIGURE 3



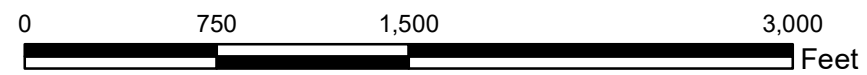


Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Approximate Groundwater Elevation data are reported using North American Vertical Datum of 1988 (NAVD88).

Legend 	Geologic Units 		SCALE As Shown	DRAWING TITLE GEOLOGIC CROSS SECTION A - A' PLANT MILLER ASH POND	
			DATE 1/9/2020		
			DRAWN BY KWR		
			CHECKED BY GBD	FIGURE NO FIGURE 4	

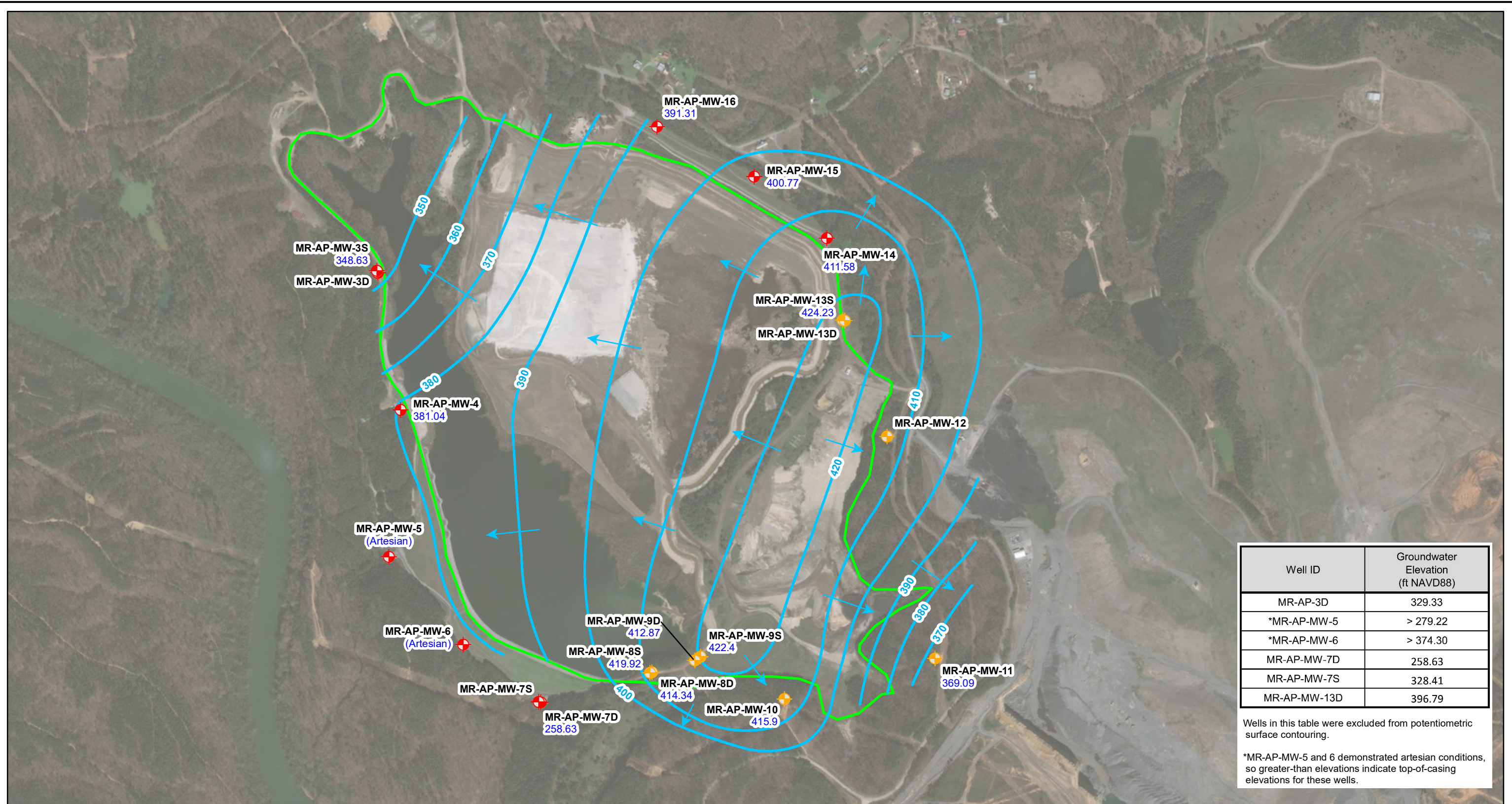


- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Ash Pond Boundary (Plant Miller)
 - Ash Pond Boundary (Plant Gorgas)
 - Property Boundary (Approximate)



SCALE	1:9000
DATE	1/20/2020
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CHECKED BY	GBD

DRAWING TITLE	
MONITORING WELL LOCATION MAP PLANT MILLER ASH POND	
FIGURE NO	Southern Company
FIGURE 5	



Well ID	Groundwater Elevation (ft NAVD88)
MR-AP-3D	329.33
*MR-AP-MW-5	> 279.22
*MR-AP-MW-6	> 374.30
MR-AP-MW-7D	258.63
MR-AP-MW-7S	328.41
MR-AP-MW-13D	396.79

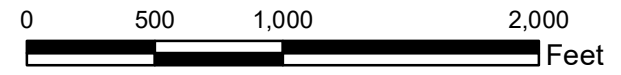
Wells in this table were excluded from potentiometric surface contouring.

*MR-AP-MW-5 and 6 demonstrated artesian conditions, so greater-than elevations indicate top-of-casing elevations for these wells.

Legend

- Monitoring Well (Gillespy Aquifer)
- Monitoring Well (Pratt Aquifer)
- Conceptual Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary

MR-AP-MW-1 Well ID
280.76 Groundwater Elevation



NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. Potentiometric contour lines were generalized for depiction and ease of reader.





SCALE	1:9000
DATE	1/27/2020
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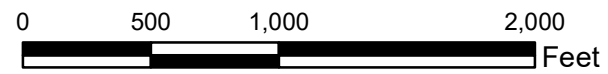
DRAWING TITLE
**POTENTIOMETRIC SURFACE CONTOUR MAP
GILLESPY AND PRATT AQUIFERS
APRIL 22, 2019
PLANT MILLER ASH POND**

FIGURE NO
FIGURE 6A




Legend

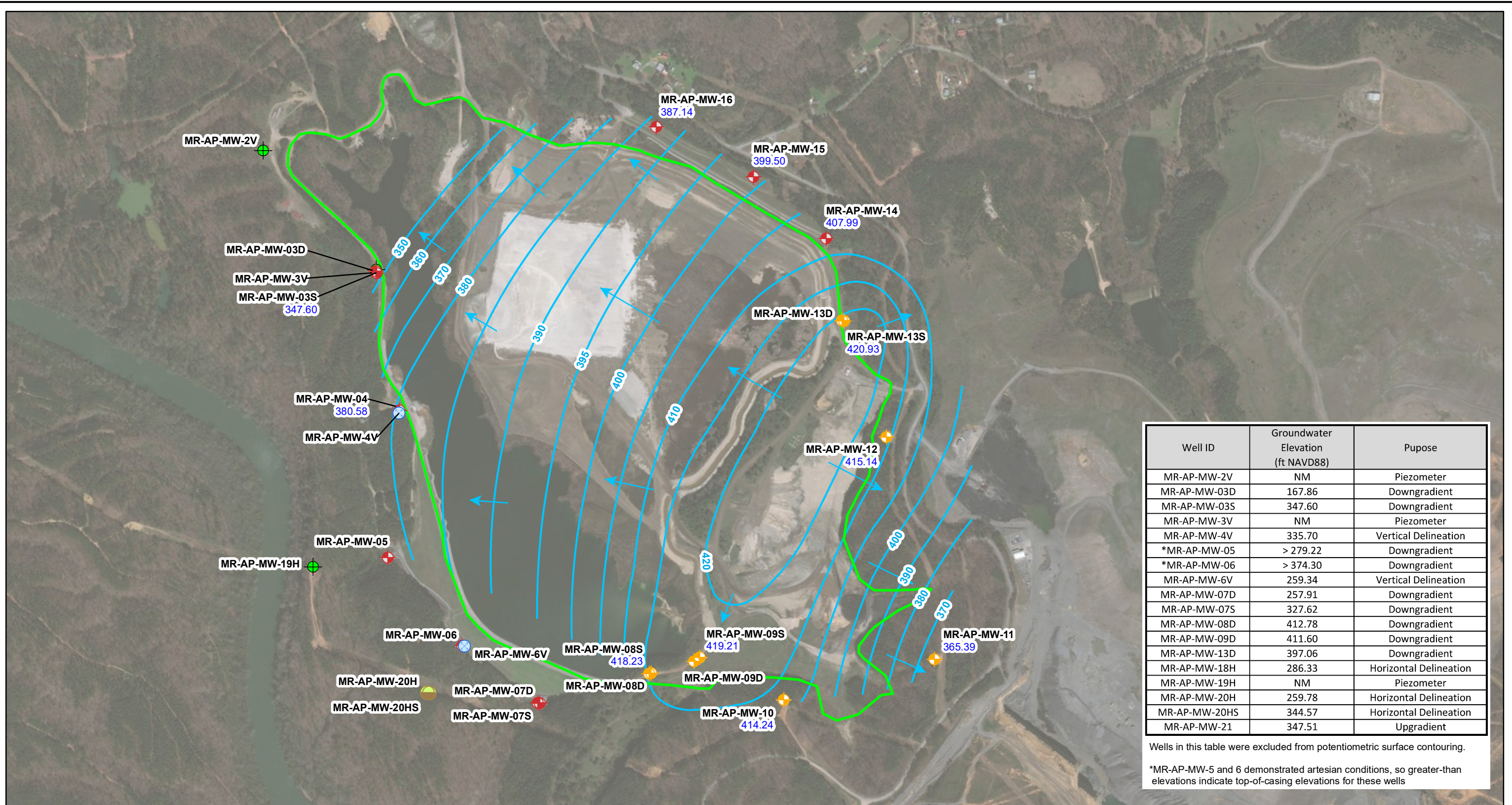
-  Monitoring Well (Mary Lee Aquifer)
 -  Ash Pond Boundary
 -  Conceptual Potentiometric Surface Contour (ft NAVD88)
 -  Approximate Groundwater Flow Direction
- MR-AP-MW-1** Well ID
280.76 Groundwater Elevation



- NOTES:**
1. ft NAVD88 indicates feet above the North American Vertical Datum of 1988.
 2. MR-AP-PZ-5 demonstrated artesian conditions, so the top-of-casing elevation of 279.66 ft NAVD88 was used for potentiometric contouring. The actual water level elevation was greater than 279.66 ft NAVD88.

SCALE	1:9000
DATE	1/21/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	POTENTIOMETRIC SURFACE CONTOUR MAP
	MARY LEE AQUIFER
	APRIL 22, 2019
FIGURE NO	PLANT MILLER ASH POND
	FIGURE 6B
	



Well ID	Groundwater Elevation (ft NAVD88)	Pupose
MR-AP-MW-2V	NM	Piezometer
MR-AP-MW-03D	167.86	Downgradient
MR-AP-MW-03S	347.60	Downgradient
MR-AP-MW-3V	NM	Piezometer
MR-AP-MW-4V	335.70	Vertical Delineation
*MR-AP-MW-05	> 279.22	Downgradient
*MR-AP-MW-06	> 374.30	Downgradient
MR-AP-MW-6V	259.34	Vertical Delineation
MR-AP-MW-07D	257.91	Downgradient
MR-AP-MW-07S	327.62	Downgradient
MR-AP-MW-08D	412.78	Downgradient
MR-AP-MW-09D	411.60	Downgradient
MR-AP-MW-13D	397.06	Downgradient
MR-AP-MW-18H	286.33	Horizontal Delineation
MR-AP-MW-19H	NM	Piezometer
MR-AP-MW-20H	259.78	Horizontal Delineation
MR-AP-MW-20HS	344.57	Horizontal Delineation
MR-AP-MW-21	347.51	Upgradient

Wells in this table were excluded from potentiometric surface contouring.

*MR-AP-MW-5 and 6 demonstrated artesian conditions, so greater-than elevations indicate top-of-casing elevations for these wells

Legend 	SCALE	1:9000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP GILLESPY AND PRATT AQUIFERS AUGUST 26, 2019 PLANT MILLER ASH POND	
	DATE	1/27/2020		
	DRAWN BY	KAR	FIGURE NO	FIGURE 7A
	CHECKED BY	GBD		

NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. Potentiometric contour lines were generalized for depiction and ease of reader.

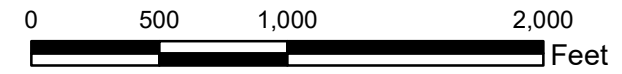


Well ID	Groundwater Elevation (ft NAVD88)	Purpose
MR-AP-MW-2V	NM	Piezometer
MR-AP-MW-3V	NM	Piezometer
MR-AP-MW-4V	335.7	Vertical Delineation
MR-AP-MW-6V	259.34	Vertical Delineation
MR-AP-MW-19H	NM	Piezometer
MR-AP-MW-20H	259.78	Horizontal Delineation
MR-AP-MW-20HS	344.57	Horizontal Delineation
MR-AP-MW-21	347.51	Upgradient

Wells in this table were excluded from potentiometric surface contouring.

Legend

- Horizontal Delineation Well
 - Vertical Delineation Well
 - Monitoring Well (Mary Lee Aquifer)
 - Piezometer
 - Ash Pond Boundary
 - Conceptual Potentiometric Surface Contour (ft NAVD88)
 - Approximate Groundwater Flow Direction
- MR-AP-MW-01** Well ID
278.27 Groundwater Elevation



NOTES:
 1. ft NAVD88 indicates feet above the North American Vertical Datum of 1988.
 2. NM indicates not measured.
 3. MR-AP-PZ-5 demonstrated artesian conditions, so the top-of-casing elevation of 279.66 ft NAVD88 was used for potentiometric contouring. The actual water level elevation was greater than 279.66 ft NAVD88.

SCALE	1:9000
DATE	1/27/2020
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
MARY LEE AQUIFER
AUGUST 26, 2019
PLANT MILLER ASH POND

FIGURE NO
FIGURE 7B

Tables

Table 1.
Groundwater Monitoring Well Network Details

Well Name	Purpose	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Well Depth (ft.) Below Top of Casing	Top of Screen Elevation (MSL)	Bottom of Screen Elevation (MSL)	Screen Length
MR-AP-MW-1	Downgradient	4/18/2016	1315796.443	2101586.68	470.67	473.68	291.32	192.76	182.76	10
MR-AP-MW-2	Downgradient	3/9/2016	1315515.68	2100270.201	478.83	482.33	236.70	256.03	246.03	10
MR-AP-MW-3S	Downgradient	4/16/2016	1314490.679	2101150.356	433.34	436.27	138.80	307.87	297.87	10
MR-AP-MW-3D	Downgradient	2/6/2016	1314503.233	2101142.734	433.94	437.06	169.70	277.76	267.76	10
MR-AP-MW-4	Downgradient	2/7/2016	1313401.854	2101331.314	419.22	422.47	68.86	364.01	354.01	10
MR-AP-MW-5	Downgradient	2/8/2016	1312237.966	2101237.427	276.15	279.22	61.00	228.62	218.62	10
MR-AP-PZ-5	Downgradient	3/16/2016	1312254.516	2101252.269	277.22	279.66	220.80	69.26	59.26	10
MR-AP-MW-6	Downgradient	2/9/2016	1311543.398	2101826.033	371.03	374.30	45.55	339.15	329.15	10
MR-AP-MW-7S	Downgradient	2/11/2016	1311085.053	2102441.432	338.25	341.75	43.19	308.96	298.96	10
MR-AP-MW-7D	Downgradient	4/19/2016	1311089.176	2102424.149	338.27	341.51	116.35	235.56	225.56	10
MR-AP-MW-8S	Downgradient	2/27/2016	1311324.702	2103319.766	455.03	458.06	53.23	415.23	405.23	10
MR-AP-MW-8D	Downgradient	2/26/2016	1311320.933	2103304.454	454.39	457.64	80.55	387.49	377.49	10
MR-AP-MW-9S	Downgradient	4/12/2016	1311448.066	2103706.868	446.35	449.63	44.95	415.08	405.08	10
MR-AP-MW-9D	Downgradient	12/10/2015	1311419.682	2103661.771	446.40	449.71	107.20	352.91	342.91	10
MR-AP-MW-10	Downgradient	3/29/2016	1311111.833	2104370.288	538.09	541.74	180.81	371.33	361.33	10
MR-AP-MW-11	Downgradient	3/30/2016	1311434.723	2105563.036	590.92	594.02	271.05	333.38	323.38	10
MR-AP-MW-12	Downgradient	2/24/2016	1313191.812	2105182.709	501.46	504.53	121.66	393.27	383.27	10
MR-AP-MW-13D	Downgradient	2/25/2016	1314114.769	2104830.326	434.51	437.36	86.45	361.31	351.31	10
MR-AP-MW-13S	Downgradient	4/12/2016	1314110.288	2104848.862	434.76	437.74	43.31	404.83	394.83	10
MR-AP-MW-14	Downgradient	2/26/2016	1314759.424	2104706.671	427.57	430.69	54.53	386.56	376.56	10
MR-AP-MW-15	Downgradient	2/29/2016	1315249.573	2104131.684	410.46	413.65	40.30	383.75	373.75	10
MR-AP-MW-16	Downgradient	2/17/2016	1315642.521	2103360.223	415.27	418.55	39.91	389.14	379.14	10
MR-AP-MW-21	Upgradient	2/11/2019	1326580.08	2091841.98	369.94	373.18	183.64	199.54	189.54	10
*GS-AP-MW-8	Upgradient	2/26/2016	1323405.23	2062398.47	431.63	434.61	64.59	390.42	370.42	20
*GS-AP-MW-13	Upgradient	2/4/2016	1319377.84	2064083.37	461.03	464.20	113.17	371.43	351.43	20
MR-AP-MW-4V	Vertical Delineation	1/14/2019	1313381.67	2101325.19	419.11	422.22	101.70	330.92	320.92	10
MR-AP-MW-6V	Vertical Delineation	1/14/2019	1311537.95	2101843.1	372.64	375.95	124.11	262.24	252.24	10
MR-AP-MW-17H	Horizontal Delineation	1/23/2019	1314578.07	2098059.51	272.85	276.32	51.43	235.29	225.29	10
MR-AP-MW-18H	Horizontal Delineation	2/11/2019	1314458.01	2100395.55	445.93	448.98	203.10	256.28	246.28	10
MR-AP-MW-20H	Horizontal Delineation	1/22/2019	1311172.19	2101551.05	381.14	384.31	200.22	194.49	184.49	10
MR-AP-MW-20HS	Horizontal Delineation	1/26/2019	1311168.19	2101564.81	369.94	373.18	82.29	301.29	291.29	10
MR-AP-MW-2V	Piezometer	2/6/2019	1315457.40	2100251.58	477.33	480.46	298.53	201.43	181.43	20
MR-AP-MW-3V	Piezometer	1/9/2019	1314518.31	2101146.04	434.48	438.04	225.91	221.73	211.73	10
MR-AP-MW-19H	Piezometer	2/9/2019	1311172.19	2101551.05	380.86	384.23	134.76	259.07	249.07	10

Notes:

1. Northing and easting are in feet relative to the State Plane Alabama West North America Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum of 1988.
3. Top of screen and bottom of screen depths are calculated relative to Top of Casing elevation and less the well sump length of 0.4'.
4. *Monitor Wells GS-AP-MW-8 and GS-AP-MW-13 are utilized as upgradient background wells and are sampled during the Plant Gorgas sampling event.

Table 2.
Monitoring Parameters and Reporting Limits

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

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter

**Table 3.
Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)																		
		5/12/2016	7/18/2016	9/26/2016	10/31/2016	1/9/2017	2/13/2017	4/4/2017	5/15/2017	6/12/2017	9/18/2017	1/29/2018	3/27/2018	5/7/2018	10/8/2018	3/13/2019	4/22/2019	8/26/2019		
MR-AP-MW-1	473.68	280.48	278.77	277.96	277.54	277.71	280.54	282.04	280.13	280.46	279.72	280.25	280.60	280.84	279.10	280.60	280.76	278.27		
MR-AP-MW-2	482.33	280.44	278.69	277.88	277.37	277.92	280.47	281.84	280.06	280.32	279.62	280.23	280.52	280.74	278.99	280.51	280.68	278.20		
MR-AP-MW-3S	436.27	343.92	346.22	346.74	346.38	346.44	347.45	348.13	346.90	347.17	347.07	347.21	347.99	348.94	348.61	349.22	348.63	347.60		
MR-AP-MW-3D	437.06	326.76	326.34	326.06	325.96	327.05	328.58	333.38	326.12	327.47	326.69	325.42	326.56	326.79	325.30	327.82	329.33	325.26		
MR-AP-MW-4	422.47	381.19	381.14	381.11	381.02	380.99	381.05	381.61	380.90	381.07	381.03	380.79	380.89	380.92	380.81	381.03	381.04	380.58		
MR-AP-MW-5	279.22	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian		
MR-AP-PZ-5	279.66	Artesian	Artesian	278.39	277.47	277.88	Artesian	Artesian	279.13	279.45	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian		
MR-AP-MW-6	374.30	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian		
MR-AP-MW-7S	341.75	324.07	324.88	324.54	324.30	324.78	325.67	326.76	325.91	326.27	326.96	326.62	327.02	327.60	327.43	328.97	328.41	327.62		
MR-AP-MW-7D	341.51	257.69	257.35	257.78	257.24	257.86	258.41	261.57	258.05	257.96	258.05	258.03	258.29	258.41	257.77	257.97	258.63	257.91		
MR-AP-MW-8S	458.06	419.29	419.31	419.25	419.28	419.32	419.64	420.70	419.25	419.55	419.42	419.35	419.63	419.67	419.28	420.28	419.92	418.23		
MR-AP-MW-8D	457.64	412.17	412.29	412.72	412.78	412.88	413.16	414.10	413.13	413.49	413.51	413.37	413.68	413.79	413.50	414.70	414.34	412.78		
MR-AP-MW-9S	449.63	418.34	418.44	418.88	418.83	420.68	422.70	424.68	420.27	421.96	421.12	423.90	421.96	422.17	420.54	423.25	422.40	419.21		
MR-AP-MW-9D	449.71	412.47	412.38	412.51	412.64	412.81	412.94	413.51	412.67	412.85	412.88	412.81	412.90	412.88	412.74	413.43	412.87	411.60		
MR-AP-MW-10	541.74	412.30	412.63	412.98	413.04	413.36	413.76	414.64	413.76	414.17	414.39	414.62	414.94	415.20	415.14	416.57	415.90	414.24		
MR-AP-MW-11	594.02	361.16	361.79	362.55	362.52	362.98	364.17	364.89	365.70	366.35	366.69	365.43	367.16	367.88	366.28	371.32	369.09	365.39		
MR-AP-MW-12	504.53	415.69	415.85	415.85	erroneous	416.05	416.29	416.97	416.11	416.40	416.43	416.45	416.55	416.59	416.32	--	--	--		
MR-AP-MW-13D	437.36	421.53	420.26	420.32	419.74	418.93	419.15	416.22	411.49	411.06	407.34	403.54	402.89	400.75	395.85	397.65	396.79	397.06		
MR-AP-MW-13S	437.74	422.80	422.60	422.74	422.42	423.21	423.93	424.63	423.33	423.62	423.79	423.60	424.29	424.43	423.44	425.30	424.23	420.93		
MR-AP-MW-14	430.69	410.63	409.29	409.27	408.92	409.67	411.24	412.38	410.61	411.25	410.93	410.82	411.24	411.32	410.02	412.05	411.58	407.99		
MR-AP-MW-15	413.65	401.40	400.81	400.81	400.35	401.08	401.70	402.14	401.48	401.80	402.01	401.50	402.11	402.17	400.04	400.80	400.77	399.50		
MR-AP-MW-16	418.55	388.47	388.27	388.35	387.53	389.26	390.37	394.37	388.43	389.21	389.37	388.34	389.61	389.69	388.90	392.06	391.31	387.14		
MR-AP-MW-21	373.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	353.66	--	347.51		
MR-AP-MW-4V	422.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	336.60	--	335.70		
MR-AP-MW-6V	375.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	258.91	--	259.34		
MR-AP-MW-17H	276.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	255.34	--	254.92		
MR-AP-MW-18H	448.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	291.24	--	286.33		
MR-AP-MW-20H	384.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	259.28	--	259.86		
MR-AP-MW-20HS	373.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	333.33	--	333.44		
		6/30/2016	7/7/2016	7/27/2016	8/1/2016	9/19/2016	10/24/2016	12/12/2016	2/6/2017	3/27/2017	4/24/2017	6/5/2017	8/21/2017	2/19/2018	4/2/2018	5/14/2018	10/15/2018	3/13/2019	4/15/2019	9/23/2019
*GS-AP-MW-8	434.61	388.30	388.22	387.95	388.05	387.65	386.81	387.48	388.46	388.59	389.32	389.28	389.87	391.02	390.73	391.08	389.43	391.66	391.88	387.52
*GS-AP-MW-13	464.20	394.80	394.63	394.37	394.33	393.71	393.37	393.00	392.75	392.67	392.74	392.69	392.78	392.39	392.79	393.22	392.99	395.09	395.73	--

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

**Table 4.
Relative Percent Difference Calculations**

2019 1st Semi-Annual Monitoring Event				
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MR-AP-MW-4	MR-AP-MW-4 DUP	
Boron	mg/L	0.444	0.45	1.3
Calcium	mg/L	271	259	4.5
Chloride	mg/L	42.4	40.8	3.8
Fluoride	mg/L	0.226	0.228	0.9
Sulfate	mg/L	758	770	1.6
TDS	mg/L	1180	1150	2.6
Barium	mg/L	0.0146	0.0148	1.4
Cobalt	mg/L	0.0206	0.0201	2.5
Lithium	mg/L	0.0729	0.0738	1.2

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MR-AP-MW-5	MR-AP-MW-5 DUP	
Boron	mg/L	0.849	0.846	0.4
Calcium	mg/L	330	329	0.3
Chloride	mg/L	43.3	43.8	1.1
Fluoride	mg/L	0.407	0.428	5.0
Sulfate	mg/L	884	898	1.6
TDS	mg/L	1390	1370	1.4
Arsenic	mg/L	0.0122	0.0117	4.2
Barium	mg/L	0.0163	0.0159	2.5
Lithium	mg/L	0.229	0.228	0.4
Molybdenum	mg/L	0.0731	0.0722	1.2

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MR-AP-MW-16	MR-AP-MW-16 DUP	
Boron	mg/L	2.41	2.41	0.0
Calcium	mg/L	139	127	9.0
Chloride	mg/L	11.9	12	0.8
Fluoride	mg/L	0.225	0.236	4.8
Sulfate	mg/L	385	406	5.3
TDS	mg/L	646	618	4.4
Barium	mg/L	0.0252	0.0243	3.6
Molybdenum	mg/L	0.0148	0.0142	4.1

Table 4.
Relative Percent Difference Calculations

2019 2nd Semi-Annual Monitoring Event				
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MR-AP-MW-5	MR-AP-MW-5 DUP	
Boron	mg/L	0.852	0.855	0.4
Calcium	mg/L	279	278	0.4
Chloride	mg/L	47.1	45.4	3.7
Fluoride	mg/L	0.385	0.384	0.3
Sulfate	mg/L	818	823	0.6
TDS	mg/L	1370	1360	0.7
Arsenic	mg/L	0.0107	0.0106	0.9
Barium	mg/L	0.0158	0.0154	2.6
Lithium	mg/L	0.237	0.238	0.4
Molybdenum	mg/L	0.0709	0.0692	2.4

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MR-AP-MW-10	MR-AP-MW-10 DUP	
Boron	mg/L	4.1	4.04	1.5
Calcium	mg/L	178	200	11.6
Chloride	mg/L	6.65	6.76	1.6
Fluoride	mg/L	0.445	0.448	0.7
Sulfate	mg/L	847	851	0.5
TDS	mg/L	1550	1540	0.6
Barium	mg/L	0.0185	0.0181	2.2
Lithium	mg/L	0.197	0.195	1.0
Molybdenum	mg/L	0.158	0.157	0.6

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MR-AP-MW-16	MR-AP-MW-16 DUP	
Boron	mg/L	3.18	3.17	0.3
Calcium	mg/L	99.5	98	1.5
Chloride	mg/L	10.8	10.7	0.9
Fluoride	mg/L	0.29	0.295	1.7
Sulfate	mg/L	384	371	3.4
TDS	mg/L	642	652	1.5
Barium	mg/L	0.0208	0.0217	4.2
Lithium	mg/L	0.0555	0.0554	0.2
Molybdenum	mg/L	0.107	0.11	2.8

Table 5.
Summary of Background Levels and Groundwater Protection Standards

Analyte	Units	Background	Federal GWPS	State GWPS
Antimony	mg/L	0.003	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.189	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.001	0.005	0.005
Chromium	mg/L	0.01	0.1	0.1
Cobalt	mg/L	0.01; 0.005	0.006	0.006
Combined Radium-226/228	pCi/L	1.059; 1.063	5	5
Fluoride	mg/L	0.2257; 0.2237	4	4
Lead	mg/L	0.005	0.015	0.015
Lithium	mg/L	0.05	0.04	0.05
Mercury	mg/L	0.0005	0.002	0.002
Molybdenum	mg/L	0.01	0.1	0.1
Selenium	mg/L	0.01	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h)()
4. Where two numbers are present, they denote the different background levels for each of the two semiannual monitoring events in the order that they were determined.

Table 6.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
GS-AP-MW-13	4/16/2019	Non-Detect	38.6	3.23	0.197	6.64	12.1	185
GS-AP-MW-8	4/16/2019	Non-Detect	4.43	3.69	0.143	5.76	4.53	92
MR-AP-MW-1	5/1/2019	Non-Detect	47.9	15	0.143	11.01	309	694
MR-AP-MW-2	5/1/2019	0.24	272	5.04	0.108	6.25	1580	2370
MR-AP-MW-3D	4/29/2019	0.407	186	40.7	0.343	6.81	484	956
MR-AP-MW-3S	4/22/2019	0.183(J)	16.8	242	0.335	9.17	249	930
MR-AP-MW-4	4/29/2019	0.444	271	42.4	0.226	5.91	758	1180
MR-AP-MW-5	4/23/2019	0.849	330	43.3	0.407	7.03	884	1390
MR-AP-PZ-5	4/23/2019	0.372	11.9	24.9	1.33	8.18	8.17	478
MR-AP-MW-6	4/23/2019	0.862	167	33	0.167	6.06	638	882
MR-AP-MW-7D	4/24/2019	0.756	140	28	0.156	6.63	364	748
MR-AP-MW-7S	4/24/2019	0.73	103	22.9	0.296	6.43	239	574
MR-AP-MW-8D	4/24/2019	0.893	54.1	11.2	0.258	5.91	461	724
MR-AP-MW-8S	4/24/2019	1.53	53.6	4.06	0.531	6.62	315	596
MR-AP-MW-9D	4/24/2019	0.758	66	11.2	0.205	5.62	486	802
MR-AP-MW-9S	4/24/2019	0.757	325	5.42	0.277	5.82	513	838
MR-AP-MW-10	4/24/2019	3.61	201	7.66	0.433	6.91	950	1460
MR-AP-MW-11	5/1/2019	Non-Detect	136	6.46	0.118	6.64	549	996
MR-AP-MW-13D	4/24/2019	0.0987(J)	46	14.7	0.199	6.67	92.4	323
MR-AP-MW-13S	4/24/2019	0.137(J)	16	9.4	0.161	5.65	131	306
MR-AP-MW-14	4/24/2019	0.121(J)	33.6	7.29	0.22	6.44	47.2	218
MR-AP-MW-15	4/24/2019	0.243	39	18.3	0.133	6.46	91.9	234
MR-AP-MW-16	4/24/2019	2.41	139	11.9	0.225	6.01	385	646

Notes:

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

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

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 6.
First Semi-Annual Monitoring Event Analytical Summary

APPENDIX IV								
WELL	SAMPLE DATE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
GWPS		0.006	0.01	2	0.004	0.005	0.1	0.01
UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GS-AP-MW-13	4/16/2019	Non-Detect	Non-Detect	0.16	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-8	4/16/2019	Non-Detect	Non-Detect	0.00459(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-1	5/1/2019	Non-Detect	0.00229(J)	0.0672	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	5/1/2019	Non-Detect	0.0039(J)	0.0164	Non-Detect	Non-Detect	Non-Detect	0.0642
MR-AP-MW-3D	4/29/2019	0.00118(J)	0.0108	0.0404	Non-Detect	Non-Detect	Non-Detect	0.00555
MR-AP-MW-3S	4/22/2019	0.00126(J)	0.00275(J)	0.447	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	4/29/2019	Non-Detect	Non-Detect	0.0146	Non-Detect	Non-Detect	Non-Detect	0.0206
MR-AP-MW-5	4/23/2019	Non-Detect	0.0122	0.0163	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-PZ-5	4/23/2019	0.0009(J)	Non-Detect	0.176	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-6	4/23/2019	Non-Detect	Non-Detect	0.0256	Non-Detect	Non-Detect	Non-Detect	0.0471
MR-AP-MW-7D	4/24/2019	Non-Detect	0.00189(J)	0.0326	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-7S	4/24/2019	Non-Detect	0.00245(J)	0.0402	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-8D	4/24/2019	Non-Detect	0.00146(J)	0.0295	Non-Detect	Non-Detect	Non-Detect	0.00723
MR-AP-MW-8S	4/24/2019	0.000999(J)	Non-Detect	0.0202	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	4/24/2019	Non-Detect	0.00194(J)	0.0128	Non-Detect	Non-Detect	Non-Detect	0.0207
MR-AP-MW-9S	4/24/2019	Non-Detect	Non-Detect	0.0458	Non-Detect	0.000319(J)	Non-Detect	Non-Detect
MR-AP-MW-10	4/24/2019	Non-Detect	0.00193(J)	0.0154	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	5/1/2019	Non-Detect	Non-Detect	0.04	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	4/24/2019	Non-Detect	0.00439(J)	0.0726	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	4/24/2019	Non-Detect	0.00362(J)	0.0217	Non-Detect	Non-Detect	Non-Detect	0.0237
MR-AP-MW-14	4/24/2019	Non-Detect	Non-Detect	0.0723	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-15	4/24/2019	Non-Detect	Non-Detect	0.0765	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-16	4/24/2019	0.00107(J)	Non-Detect	0.0252	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

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

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

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 6.
First Semi-Annual Monitoring Event Analytical Summary

APPENDIX IV									
WELL	SAMPLE DATE	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GS-AP-MW-13	4/16/2019	0.506(U)	0.197	Non-Detect	0.0101(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-8	4/16/2019	0.733	0.143	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-1	5/1/2019	0.312(U)	0.143	Non-Detect	0.104	Non-Detect	0.00932(J)	Non-Detect	Non-Detect
MR-AP-MW-2	5/1/2019	0.29(U)	0.108	Non-Detect	0.228	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-3D	4/29/2019	0.0878(U)	0.343	Non-Detect	0.104	Non-Detect	0.0265	Non-Detect	Non-Detect
MR-AP-MW-3S	4/22/2019	0.678	0.335	Non-Detect	0.243	0.000318(J)	0.068	Non-Detect	Non-Detect
MR-AP-MW-4	4/29/2019	0.0390(U)	0.226	Non-Detect	0.0729	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-5	4/23/2019	1.12	0.407	Non-Detect	0.229	0.000319(J)	0.0731	Non-Detect	Non-Detect
MR-AP-PZ-5	4/23/2019	0.267(U)	1.33	Non-Detect	0.134	0.000311(J)	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-6	4/23/2019	0.356	0.167	Non-Detect	0.0822	Non-Detect	0.00479(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	4/24/2019	0.423(U)	0.156	Non-Detect	0.0996	0.000318(J)	0.00612(J)	Non-Detect	Non-Detect
MR-AP-MW-7S	4/24/2019	0.148(U)	0.296	Non-Detect	0.148	Non-Detect	0.0325	Non-Detect	Non-Detect
MR-AP-MW-8D	4/24/2019	-0.104(U)	0.258	Non-Detect	0.0568	0.000303(J)	0.00699(J)	Non-Detect	Non-Detect
MR-AP-MW-8S	4/24/2019	0.175(U)	0.531	Non-Detect	0.0268(J)	0.000334(J)	0.0298	Non-Detect	Non-Detect
MR-AP-MW-9D	4/24/2019	0.25(U)	0.205	Non-Detect	0.0724	0.000331(J)	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9S	4/24/2019	0.471(U)	0.277	Non-Detect	0.142	0.000345(J)	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-10	4/24/2019	0.601	0.433	Non-Detect	0.186	Non-Detect	0.121	Non-Detect	Non-Detect
MR-AP-MW-11	5/1/2019	0.295(U)	0.118	Non-Detect	0.327	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	4/24/2019	0.482	0.199	Non-Detect	0.0404(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	4/24/2019	0.289(U)	0.161	Non-Detect	0.0788	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	4/24/2019	0.252(U)	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-15	4/24/2019	0.373	0.133	Non-Detect	Non-Detect	0.000316(J)	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-16	4/24/2019	0.317(U)	0.225	Non-Detect	0.0295(J)	Non-Detect	0.0148	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids
5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 7.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
GS-AP-MW-8	9/24/2019	Non-Detect	7.24	3.21	0.128	5.27	6.61	109
MR-AP-MW-1	8/27/2019	0.0869(J)	165	8.75	0.159	7.48	639	1120
MR-AP-MW-2	8/27/2019	0.192	251	7.95	0.19	6.25	1570	2470
MR-AP-MW-3D	8/27/2019	0.443	189	34.7	0.361	6.84	529	960
MR-AP-MW-3S	8/27/2019	0.209	9.68	145	0.294	9.23	248	837
MR-AP-MW-4	8/27/2019	0.495	252	42.3	0.237	6.04	670	1120
MR-AP-MW-5	8/28/2019	0.852	279	47.1	0.385	7.08	818	1370
MR-AP-PZ-5	8/29/2019	0.319	14.2	28.5	2.07	8.26	92	734
MR-AP-MW-6	8/28/2019	0.906	148	32.5	0.105	5.98	609	903
MR-AP-MW-7D	8/28/2019	0.764	113	27.2	0.106	6.58	371	660
MR-AP-MW-7S	8/28/2019	0.743	83.7	22.7	0.221	6.56	258	568
MR-AP-MW-8D	8/28/2019	1.05	55.2	10.8	0.214	6.09	439	764
MR-AP-MW-8S	8/28/2019	2.06	56.9	4.08	0.565	6.78	366	712
MR-AP-MW-9D	8/27/2019	0.75	67.7	10.2	0.173	5.44	490	774
MR-AP-MW-9S	8/27/2019	0.438	77.6	7.56	0.173	5.53	553	892
MR-AP-MW-10	8/29/2019	4.1	178	6.65	0.445	6.93	847	1550
MR-AP-MW-11	8/28/2019	Non-Detect	138	6.4	0.13	7.22	605	1050
MR-AP-MW-12	8/28/2019	7.06	152	7.27	0.916	6.63	1780	2850
MR-AP-MW-13D	8/29/2019	0.0961(J)	47.3	13.4	0.144	6.8	82.7	307
MR-AP-MW-13S	8/29/2019	0.11	17.6	9.33	0.103	5.67	137	323
MR-AP-MW-14	8/28/2019	0.126	36.5	7.3	0.192	6.31	51.8	213
MR-AP-MW-15	8/28/2019	0.863	53.8	19.3	0.0974(J)	6.38	227	397
MR-AP-MW-16	8/28/2019	3.18	99.5	10.8	0.29	6.34	384	642
MR-AP-MW-21	8/28/2019	0.0879(J)	63.5	9.75	0.212	7.42	108	446

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids
5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 7.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV						
WELL	SAMPLE DATE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
GWPS		0.006	0.01	2	0.004	0.005	0.1	0.006
UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GS-AP-MW-8	9/24/2019	Non-Detect	Non-Detect	0.0434	Non-Detect	Non-Detect	Non-Detect	0.00234(J)
MR-AP-MW-1	8/27/2019	Non-Detect	0.00211(J)	0.0555	Non-Detect	Non-Detect	0.00336(J)	Non-Detect
MR-AP-MW-2	8/27/2019	Non-Detect	0.00194(J)	0.0177	Non-Detect	Non-Detect	Non-Detect	0.0498
MR-AP-MW-3D	8/27/2019	Non-Detect	0.0111	0.0334	Non-Detect	Non-Detect	Non-Detect	0.00562
MR-AP-MW-3S	8/27/2019	Non-Detect	0.00222(J)	0.395	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	8/27/2019	Non-Detect	Non-Detect	0.014	Non-Detect	Non-Detect	Non-Detect	0.0157
MR-AP-MW-5	8/28/2019	Non-Detect	0.0107	0.0158	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-PZ-5	8/29/2019	Non-Detect	0.00123(J)	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-6	8/28/2019	Non-Detect	Non-Detect	0.0269	Non-Detect	Non-Detect	Non-Detect	0.0283
MR-AP-MW-7D	8/28/2019	Non-Detect	0.00197(J)	0.0361	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-7S	8/28/2019	Non-Detect	0.0021(J)	0.0451	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-8D	8/28/2019	Non-Detect	0.00146(J)	0.0323	Non-Detect	Non-Detect	Non-Detect	0.00697
MR-AP-MW-8S	8/28/2019	Non-Detect	Non-Detect	0.0217	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	8/27/2019	Non-Detect	0.00188(J)	0.014	Non-Detect	Non-Detect	Non-Detect	0.0198
MR-AP-MW-9S	8/27/2019	Non-Detect	Non-Detect	0.0332	Non-Detect	Non-Detect	Non-Detect	0.00264(J)
MR-AP-MW-10	8/29/2019	Non-Detect	0.00177(J)	0.0185	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	8/28/2019	Non-Detect	Non-Detect	0.0387	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-12	8/28/2019	Non-Detect	0.00297(J)	0.0177	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	8/29/2019	Non-Detect	0.00296(J)	0.0876	Non-Detect	Non-Detect	0.00264(J)	Non-Detect
MR-AP-MW-13S	8/29/2019	Non-Detect	0.00453(J)	0.0247	Non-Detect	Non-Detect	Non-Detect	0.0228
MR-AP-MW-14	8/28/2019	Non-Detect	Non-Detect	0.0784	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-15	8/28/2019	Non-Detect	Non-Detect	0.0424	Non-Detect	Non-Detect	Non-Detect	0.0021(J)
MR-AP-MW-16	8/28/2019	Non-Detect	Non-Detect	0.0208	Non-Detect	Non-Detect	Non-Detect	0.00216(J)
MR-AP-MW-21	8/28/2019	Non-Detect	0.00129(J)	0.314	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

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

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

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 7.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV							
WELL	SAMPLE DATE	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GS-AP-MW-8	9/24/2019	0.753	0.128	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-1	8/27/2019	0.696	0.159	Non-Detect	0.264	Non-Detect	0.00563(J)	Non-Detect	Non-Detect
MR-AP-MW-2	8/27/2019	0.615	0.19	Non-Detect	0.257	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-3D	8/27/2019	0.491(U)	0.361	Non-Detect	0.115	Non-Detect	0.026	Non-Detect	Non-Detect
MR-AP-MW-3S	8/27/2019	1.17	0.294	Non-Detect	0.246	Non-Detect	0.0557	Non-Detect	Non-Detect
MR-AP-MW-4	8/27/2019	0.533	0.237	Non-Detect	0.0741	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-5	8/28/2019	0.81	0.385	Non-Detect	0.237	Non-Detect	0.0709	Non-Detect	Non-Detect
MR-AP-PZ-5	8/29/2019	0.355(U)	2.07	Non-Detect	0.164	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-6	8/28/2019	0.268(U)	0.105	Non-Detect	0.0853	Non-Detect	0.00285(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	8/28/2019	0.327(U)	0.106	Non-Detect	0.111	Non-Detect	0.00531(J)	Non-Detect	Non-Detect
MR-AP-MW-7S	8/28/2019	0.864	0.221	Non-Detect	0.158	Non-Detect	0.0349	Non-Detect	Non-Detect
MR-AP-MW-8D	8/28/2019	0.53(U)	0.214	Non-Detect	0.0615	Non-Detect	0.0104	Non-Detect	Non-Detect
MR-AP-MW-8S	8/28/2019	0.367(U)	0.565	Non-Detect	0.0292	Non-Detect	0.0592	Non-Detect	Non-Detect
MR-AP-MW-9D	8/27/2019	0.74	0.173	Non-Detect	0.0801	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9S	8/27/2019	0.477(U)	0.173	Non-Detect	0.138	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-10	8/29/2019	0.437(U)	0.445	Non-Detect	0.197	Non-Detect	0.158	Non-Detect	Non-Detect
MR-AP-MW-11	8/28/2019	0.358(U)	0.13	Non-Detect	0.318	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-12	8/28/2019	0.577(U)	0.916	Non-Detect	0.158	Non-Detect	0.646	Non-Detect	Non-Detect
MR-AP-MW-13D	8/29/2019	0.287(U)	0.144	Non-Detect	0.0432	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	8/29/2019	0.1(U)	0.103	Non-Detect	0.0845	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	8/28/2019	-0.0208(U)	0.192	Non-Detect	0.0213	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-15	8/28/2019	0.00424(U)	0.0974(J)	Non-Detect	0.0199(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-16	8/28/2019	0.372(U)	0.29	Non-Detect	0.0555	Non-Detect	0.107	Non-Detect	Non-Detect
MR-AP-MW-21	8/28/2019	0.908	0.212	Non-Detect	0.0493	Non-Detect	0.00208(J)	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids
5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Appendix A

Monitoring Network Status Summary

Well ID	Purpose	Summary of Sampling Events															
		July 19 - 29, 2016	September 26 - 30, 2016	October 31 - November 4, 2016	January 9 - 13, 2017	February 13 - 17, 2017	March 29 - 30, 2017	April 3 - 7, 2017	May 15 - 19, 2017	June 12 - 16, 2017	September 18 - 22, 2017	January 29 - February 2, 2018	May 7 - 11, 2018	October 8 - 12, 2018	March 4 - 29, 2019	April 22 - May 3, 2019	August 26 - September 5, 2019
Purpose of Sampling Event		Background	Background	Background	Background	Background	Background Resample	Background	Background	Background	Detection	Assessment	2018 Semi-Annual 01	2018 Semi-Annual 02	2019 Semi-Annual 01		2019 Semi-Annual 02
MR-AP-MW-1	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-2	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-3S	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-3D	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-4	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-5	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-PZ-5	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-6	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-7S	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-7D	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-8S	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-8D	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
MR-AP-MW-9S	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-9D	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-10	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-11	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05	R05	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-12	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	--
MR-AP-MW-13D	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-13S	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-14	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-15	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-16	Downgradient	BKG01	BKG02	BKG03	BKG04	BKG05		BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	--	ASM04
MR-AP-MW-21	Upgradient	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04
*GS-AP-MW-8	Upgradient	BKG01	BKG02	BKG03	BKG04	BKG05	--	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	ASM04
*GS-AP-MW-13	Upgradient	BKG01	BKG02	BKG03	BKG04	BKG05	--	BKG06	BKG07	BKG08	DET01	S01	ASM01	ASM02	--	ASM03	--
MR-AP-MW-4V	Vertical Delineation	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04
MR-AP-MW-6V	Vertical Delineation	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04
MR-AP-MW-17H	Horizontal Delineation	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04
MR-AP-MW-18H	Horizontal Delineation	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04
MR-AP-MW-20H	Horizontal Delineation	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04
MR-AP-MW-20HS	Horizontal Delineation	--	--	--	--	--	--	--	--	--	--	--	--	--	ASM03	--	ASM04

Abbreviations:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. N/A indicates the constituent was not analyzed during the sampling event.
4. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
5. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
6. GWPS is the Groundwater Protection Standard.
7. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
8. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GS-AP-MW-13	8/2/2016	Non-Detect	47.2	2.91	0.161(J)	6.8	12	221	Non-Detect	Non-Detect	0.184	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0177(U)	0.161(J)	Non-Detect	0.0121(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	9/20/2016	Non-Detect	46.3	2.94	0.122(J)	6.8	11.2	221	Non-Detect	Non-Detect	0.153	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.725	0.122(J)	Non-Detect	0.0116(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	10/25/2016	Non-Detect	46.6	2.94	0.058(J)	6.85	10.1	226	Non-Detect	Non-Detect	0.176	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.494(U)	0.058(J)	Non-Detect	0.0114(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	12/13/2016	Non-Detect	43.1	2.93	0.072(J)	6.8	11.4	211	Non-Detect	Non-Detect	0.184	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.39(U)	0.072(J)	Non-Detect	0.0116(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	2/8/2017	Non-Detect	47.5	2.85	0.16	6.76	10.9	212	Non-Detect	Non-Detect	0.189	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.455(U)	0.16	Non-Detect	0.0118(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	3/29/2017	Non-Detect	46.8	3.4	0.14	6.76	11	217	Non-Detect	Non-Detect	0.184	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.251(U)	0.14	Non-Detect	0.0118(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	4/26/2017	Non-Detect	48.1	3.7	0.16	6.71	11	202	Non-Detect	Non-Detect	0.177	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0762(U)	0.16	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	6/7/2017	Non-Detect	44.4	3.3	0.15	6.71	11	218	Non-Detect	Non-Detect	0.164	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.32(U)	0.15	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	8/22/2017	Non-Detect	42.9	3.4	0.18	6.84	11	224	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.18	n/a	n/a	n/a	n/a	n/a	n/a
GS-AP-MW-13	2/20/2018	n/a	n/a	n/a	0.17	6.77	n/a	n/a	Non-Detect	Non-Detect	0.165	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.465	0.17	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	5/15/2018	Non-Detect	44.3	3.2	0.17	6.8	11	209	Non-Detect	Non-Detect	0.172	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0571(U)	0.17	Non-Detect	0.0101	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	10/17/2018	Non-Detect	41.8	2.3	0.19	6.67	12	208	Non-Detect	Non-Detect	0.165	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.482	0.19	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GS-AP-MW-13	4/16/2019	Non-Detect	38.6	3.23	0.197	6.64	12.1	185	Non-Detect	Non-Detect	0.16	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.506(U)	0.197	Non-Detect	0.0101(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

APPENDIX III									APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-1	7/25/2016	0.0978(J)	153	14.1	0.134(J)	7.52	585	1060	Non-Detect	0.0046(J)	0.0656	Non-Detect	Non-Detect	0.00711(J)	Non-Detect	n/a	0.134(J)	Non-Detect	0.187	Non-Detect	0.0108	Non-Detect	Non-Detect
MR-AP-MW-1	9/26/2016	0.0625(J)	122	13.3	0.061(J)	8.96	480	852	Non-Detect	0.00317(J)	0.041	Non-Detect	Non-Detect	0.0166	Non-Detect	0.499	0.061(J)	Non-Detect	0.134	Non-Detect	0.0105	Non-Detect	Non-Detect
MR-AP-MW-1	11/2/2016	0.067(J)	114	12.1	0.024(J)	8.51	462	888	Non-Detect	0.00321(J)	0.0578	Non-Detect	Non-Detect	0.00481(J)	Non-Detect	0.637(U)	0.024(J)	Non-Detect	0.137	Non-Detect	0.0107	Non-Detect	Non-Detect
MR-AP-MW-1	1/11/2017	0.0588(J)	112	11.6	Non-Detect	8.5	515	920	Non-Detect	0.00286(J)	0.0603	Non-Detect	Non-Detect	0.00431(J)	Non-Detect	0.475(U)	Non-Detect	Non-Detect	0.137	Non-Detect	0.0101	Non-Detect	Non-Detect
MR-AP-MW-1	2/13/2017	0.0561(J)	132	14	0.13	8.63	n/a	848	Non-Detect	0.0024(J)	0.0946	Non-Detect	Non-Detect	0.0061(J)	Non-Detect	0.0464(U)	0.13	Non-Detect	0.187	Non-Detect	0.00994(J)	Non-Detect	Non-Detect
MR-AP-MW-1	3/30/2017	n/a	n/a	n/a	n/a	8.67	470	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-1	4/3/2017	0.0631(J)	168	11	0.15	7.63	560	1000	Non-Detect	0.00232(J)	0.0996	Non-Detect	Non-Detect	0.00215(J)	Non-Detect	0.335(U)	0.15	Non-Detect	0.225	Non-Detect	0.00788(J)	Non-Detect	Non-Detect
MR-AP-MW-1	5/15/2017	0.0636(J)	104	13	0.14	8.67	410	870	Non-Detect	0.00183(J)	0.0753	Non-Detect	Non-Detect	0.0123	Non-Detect	0.409(U)	0.14	Non-Detect	0.15	Non-Detect	0.00866(J)	Non-Detect	Non-Detect
MR-AP-MW-1	6/14/2017	0.0603(J)	122	13	0.15	8.39	450	910	Non-Detect	0.00151(J)	0.0821	Non-Detect	Non-Detect	0.00558(J)	Non-Detect	0.261(U)	0.15	Non-Detect	0.165	Non-Detect	0.00779(J)	Non-Detect	Non-Detect
MR-AP-MW-1	9/19/2017	0.0559(J)	98.6	13	0.17	8.78	430	824	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.17	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-1	2/1/2018	n/a	n/a	n/a	0.15	8.84	n/a	n/a	Non-Detect	0.00284(J)	0.0814	Non-Detect	0.000372(J)	0.00287(J)	Non-Detect	0.693	0.15	Non-Detect	0.124	Non-Detect	0.0109	Non-Detect	Non-Detect
MR-AP-MW-1	5/9/2018	0.0437(J)	141	11	0.17	8.49	460	1020	Non-Detect	0.00109(J)	0.116	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.413(U)	0.17	Non-Detect	0.166	Non-Detect	0.00618(J)	Non-Detect	Non-Detect
MR-AP-MW-1	10/9/2018	0.0559(J)	94.1	12	0.19	9.04	420	830	Non-Detect	0.00174(J)	0.0933	Non-Detect	Non-Detect	0.00248(J)	Non-Detect	0.338(U)	0.19	Non-Detect	0.136	Non-Detect	0.00745(J)	Non-Detect	Non-Detect
MR-AP-MW-1	5/1/2019	Non-Detect	47.9	15	0.143	11.01	309	694	Non-Detect	0.00229(J)	0.0672	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.312(U)	0.143	Non-Detect	0.104	Non-Detect	0.00932(J)	Non-Detect	Non-Detect
MR-AP-MW-1	8/27/2019	0.0869(J)	165	8.75	0.159	7.48	639	1120	Non-Detect	0.00211(J)	0.0555	Non-Detect	Non-Detect	0.00336(J)	Non-Detect	0.696	0.159	Non-Detect	0.264	Non-Detect	0.00563(J)	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

WELL	SAMPLE DATE	APPENDIX III							APPENDIX IV														
		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-2	7/25/2016	0.0922(J)	209	5.13	0.094(J)	6.03	1340	2040	Non-Detect	0.00267(J)	0.0266	Non-Detect	Non-Detect	Non-Detect	0.103	0.817	0.094(J)	Non-Detect	0.163	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	9/28/2016	0.126	240	4	0.035(J)	5.96	1680	2420	Non-Detect	0.00163(J)	0.0246	Non-Detect	0.000219(J)	Non-Detect	0.108	0.336(U)	0.035(J)	Non-Detect	0.197	Non-Detect	Non-Detect	Non-Detect	0.000214(J)
MR-AP-MW-2	11/1/2016	0.0959(J)	213	4.99	Non-Detect	6.02	1430	2180	Non-Detect	0.00197(J)	0.0186	Non-Detect	Non-Detect	Non-Detect	0.0813	0.00962(U)	Non-Detect	Non-Detect	0.172	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	1/11/2017	0.0976(J)	218	6.72	Non-Detect	6.11	1550	2320	Non-Detect	0.00168(J)	0.0157	Non-Detect	Non-Detect	Non-Detect	0.0669	0.844	Non-Detect	Non-Detect	0.19	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	2/14/2017	0.147	244	7.4	0.05(J)	6.16	1500	2380	Non-Detect	0.00175(J)	0.0183	Non-Detect	Non-Detect	Non-Detect	0.084	0.444(U)	0.05(J)	Non-Detect	0.292	Non-Detect	Non-Detect	Non-Detect	0.000219(J)
MR-AP-MW-2	4/4/2017	0.121	234	8.3	0.07(J)	6.1	1700	2360	Non-Detect	0.00148(J)	0.016	Non-Detect	Non-Detect	Non-Detect	0.0829	0.379(U)	0.07(J)	Non-Detect	0.292	Non-Detect	Non-Detect	Non-Detect	0.000202(J)
MR-AP-MW-2	5/16/2017	0.167	241	6.6	0.07(J)	6.12	1500	2400	Non-Detect	0.00156(J)	0.0162	Non-Detect	Non-Detect	Non-Detect	0.0815	0.37(U)	0.07(J)	Non-Detect	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	6/14/2017	0.159	241	6	0.06(J)	6.11	1700	2520	Non-Detect	0.00154(J)	0.016	Non-Detect	Non-Detect	Non-Detect	0.077	0.875	0.06(J)	Non-Detect	0.237	Non-Detect	Non-Detect	Non-Detect	0.000266(J)
MR-AP-MW-2	9/20/2017	0.148	235	8.3	0.12	6.16	1400	2500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.12	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-2	2/1/2018	n/a	n/a	n/a	0.1	6.17	n/a	n/a	Non-Detect	0.0013(J)	0.016	Non-Detect	Non-Detect	Non-Detect	0.0499	1.11	0.1	Non-Detect	0.222	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	5/9/2018	0.145	246	8.7	0.13	5.92	1300	2040	Non-Detect	0.00121(J)	0.0143	Non-Detect	Non-Detect	Non-Detect	0.0534	0.301(U)	0.13	Non-Detect	0.237	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	10/9/2018	0.15	272	8	0.1	6.21	1500	2460	Non-Detect	0.00156(J)	0.0136	Non-Detect	Non-Detect	Non-Detect	0.0525	1.04	0.1	Non-Detect	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	5/1/2019	0.24	272	5.04	0.108	6.25	1580	2370	Non-Detect	0.0039(J)	0.0164	Non-Detect	Non-Detect	Non-Detect	0.0642	0.29(U)	0.108	Non-Detect	0.228	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-2	8/27/2019	0.192	251	7.95	0.19	6.25	1570	2470	Non-Detect	0.00194(J)	0.0177	Non-Detect	Non-Detect	Non-Detect	0.0498	0.615	0.19	Non-Detect	0.257	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-3D	7/19/2016	0.527	296	52.7	0.268(J)	6.72	900	1530	0.000725(J)	0.0105	0.032	Non-Detect	Non-Detect	Non-Detect	0.00796(J)	0.251(U)	0.268(J)	Non-Detect	0.128	Non-Detect	0.0216	Non-Detect	Non-Detect
MR-AP-MW-3D	9/26/2016	0.54	269	50.6	0.213(J)	6.76	814	1480	Non-Detect	0.0106	0.0222	Non-Detect	Non-Detect	Non-Detect	0.00839(J)	0.638	0.213(J)	Non-Detect	0.12	Non-Detect	0.0226	Non-Detect	Non-Detect
MR-AP-MW-3D	10/31/2016	0.586	266	52.6	0.158(J)	6.72	800	1430	Non-Detect	0.0111	0.0235	Non-Detect	Non-Detect	Non-Detect	0.00889(J)	0.521(U)	0.158(J)	Non-Detect	0.128	Non-Detect	0.0209	Non-Detect	Non-Detect
MR-AP-MW-3D	1/9/2017	0.584	282	51.4	0.109(J)	6.73	833	1500	Non-Detect	0.0119	0.0229	Non-Detect	Non-Detect	Non-Detect	0.00787(J)	0.744	0.109(J)	Non-Detect	0.124	Non-Detect	0.0219	Non-Detect	Non-Detect
MR-AP-MW-3D	2/13/2017	0.567	268	56	0.29	6.73	n/a	1380	Non-Detect	0.0122	0.0259	Non-Detect	Non-Detect	Non-Detect	0.00873(J)	-0.0115(U)	0.29	Non-Detect	0.167	Non-Detect	0.0235	Non-Detect	Non-Detect
MR-AP-MW-3D	3/29/2017	n/a	n/a	n/a	n/a	6.68	760	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-3D	4/3/2017	0.527	282	55	0.28	6.73	860	1370	Non-Detect	0.0115	0.0244	Non-Detect	Non-Detect	Non-Detect	0.00861(J)	0.0879(U)	0.28	Non-Detect	0.163	Non-Detect	0.0238	Non-Detect	Non-Detect
MR-AP-MW-3D	5/16/2017	0.477	234	55	0.3	6.71	630	1300	Non-Detect	0.0103	0.0229	Non-Detect	Non-Detect	Non-Detect	0.00736(J)	0.137(U)	0.3	Non-Detect	0.12	Non-Detect	0.0232	Non-Detect	Non-Detect
MR-AP-MW-3D	6/12/2017	0.491	232	57	0.29	6.79	710	1300	Non-Detect	0.0108	0.0246	Non-Detect	Non-Detect	Non-Detect	0.00684(J)	0.589	0.29	Non-Detect	0.119	Non-Detect	0.0226	Non-Detect	Non-Detect
MR-AP-MW-3D	9/20/2017	0.505	211	43	0.35	6.8	590	1180	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.35	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-3D	1/29/2018	n/a	n/a	n/a	0.35	6.82	n/a	n/a	Non-Detect	0.0119	0.0282	Non-Detect	Non-Detect	Non-Detect	0.00548(J)	0.634	0.35	Non-Detect	0.11	Non-Detect	0.0236	Non-Detect	Non-Detect
MR-AP-MW-3D	5/10/2018	0.425	219	37	0.37	6.79	540	1060	Non-Detect	0.0111	0.0243	Non-Detect	Non-Detect	Non-Detect	0.00529(J)	0.147(U)	0.37	Non-Detect	0.112	Non-Detect	0.0219	Non-Detect	Non-Detect
MR-AP-MW-3D	10/9/2018	0.471	242	41	0.39	6.8	700	1220	Non-Detect	0.01	0.0234	Non-Detect	Non-Detect	Non-Detect	0.00683	0.693	0.39	Non-Detect	0.123	Non-Detect	0.0228	Non-Detect	Non-Detect
MR-AP-MW-3D	4/29/2019	0.407	186	40.7	0.343	6.81	484	956	0.00118(J)	0.0108	0.0404	Non-Detect	Non-Detect	Non-Detect	0.00555	0.0078(U)	0.343	Non-Detect	0.104	Non-Detect	0.0265	Non-Detect	Non-Detect
MR-AP-MW-3D	8/27/2019	0.443	189	34.7	0.361	6.84	529	960	Non-Detect	0.0111	0.0334	Non-Detect	Non-Detect	Non-Detect	0.00562	0.491(U)	0.361	Non-Detect	0.115	Non-Detect	0.026	Non-Detect	Non-Detect

**Analytical Data Summary
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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-3S	7/19/2016	0.195	5.63	25	0.217(J)	8.95	237	704	0.000787(J)	0.00172(J)	0.083	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.019(U)	0.217(J)	Non-Detect	0.186	Non-Detect	0.0307	Non-Detect	Non-Detect
MR-AP-MW-3S	9/26/2016	0.179	4.28	23.6	0.192(J)	9.13	105	594	Non-Detect	0.00246(J)	0.0616	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.488(U)	0.192(J)	Non-Detect	0.149	Non-Detect	0.0341	Non-Detect	Non-Detect
MR-AP-MW-3S	10/31/2016	0.19	4.04	24.4	0.157(J)	9.04	94.9	572	Non-Detect	0.00224(J)	0.073	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.147(U)	0.157(J)	Non-Detect	0.161	Non-Detect	0.028	Non-Detect	Non-Detect
MR-AP-MW-3S	1/9/2017	0.196	4.15	24.3	0.115(J)	9.62	131	608	Non-Detect	0.00251(J)	0.0791	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.288(U)	0.115(J)	Non-Detect	0.156	Non-Detect	0.0303	Non-Detect	Non-Detect
MR-AP-MW-3S	2/13/2017	0.187	4.38	28	0.27	9.43	n/a	584	Non-Detect	0.00179(J)	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.226(U)	0.27	Non-Detect	0.244	Non-Detect	0.0295	Non-Detect	Non-Detect
MR-AP-MW-3S	3/29/2017	n/a	n/a	n/a	n/a	9.04	160	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-3S	4/3/2017	0.192	4.45	31	0.25	9.18	180	606	Non-Detect	0.00128(J)	0.109	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.154(U)	0.25	Non-Detect	0.25	Non-Detect	0.0261	Non-Detect	Non-Detect
MR-AP-MW-3S	5/16/2017	0.178	4.23	31	0.24	9.11	160	608	Non-Detect	0.00124(J)	0.108	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.303(U)	0.24	Non-Detect	0.199	Non-Detect	0.0281	Non-Detect	Non-Detect
MR-AP-MW-3S	6/12/2017	0.181	4.14	32	0.26	9.54	160	644	Non-Detect	0.0018(J)	0.0919	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.645	0.26	Non-Detect	0.188	Non-Detect	0.0298	Non-Detect	Non-Detect
MR-AP-MW-3S	9/20/2017	0.188	3.88	30	0.26	9.69	140	592	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.26	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-3S	1/29/2018	n/a	n/a	n/a	0.31	9.76	n/a	n/a	Non-Detect	0.00264(J)	0.118	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.627	0.31	Non-Detect	0.164	Non-Detect	0.037	Non-Detect	Non-Detect
MR-AP-MW-3S	5/10/2018	0.183	3.79	34	0.31	9.44	120	606	Non-Detect	0.00262(J)	0.133	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0676(U)	0.31	Non-Detect	0.183	Non-Detect	0.0331	Non-Detect	Non-Detect
MR-AP-MW-3S	10/9/2018	0.202	3.78	32	0.33	9.34	130	536	Non-Detect	0.00206(J)	0.121	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.571	0.33	Non-Detect	0.175	Non-Detect	0.0377	Non-Detect	Non-Detect
MR-AP-MW-3S	4/22/2019	0.183(J)	16.8	242	0.335	9.17	249	930	0.00126(J)	0.00275(J)	0.447	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.678	0.335	Non-Detect	0.243	0.000318(J)	0.068	Non-Detect	Non-Detect
MR-AP-MW-3S	8/27/2019	0.209	9.68	145	0.294	9.23	248	837	Non-Detect	0.00222(J)	0.395	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.17	0.294	Non-Detect	0.246	Non-Detect	0.0557	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-4	7/19/2016	0.496	333	40.8	0.252(J)	5.82	981	1520	Non-Detect	Non-Detect	0.0165	Non-Detect	0.000302(J)	Non-Detect	0.0427	0.621	0.252(J)	Non-Detect	0.105	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	9/27/2016	0.514	320	47.1	0.209(J)	5.85	958	1540	Non-Detect	Non-Detect	0.0139	Non-Detect	0.00021(J)	Non-Detect	0.0401	0.529(U)	0.209(J)	Non-Detect	0.0988	Non-Detect	Non-Detect	0.0023(J)	Non-Detect
MR-AP-MW-4	11/1/2016	0.571	305	49.7	0.163(J)	5.79	933	1510	Non-Detect	Non-Detect	0.0141	Non-Detect	0.000239(J)	Non-Detect	0.0374	0.142(U)	0.163(J)	Non-Detect	0.104	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	1/9/2017	0.572	329	48.8	0.13(J)	5.83	896	1510	Non-Detect	Non-Detect	0.0144	Non-Detect	0.000248(J)	Non-Detect	0.0291	0.54(U)	0.13(J)	Non-Detect	0.102	Non-Detect	Non-Detect	0.00278(J)	Non-Detect
MR-AP-MW-4	2/13/2017	0.565	291	46	0.28	5.78	n/a	1460	Non-Detect	Non-Detect	0.0145	Non-Detect	0.00031(J)	Non-Detect	0.0368	0.764	0.28	Non-Detect	0.136	Non-Detect	Non-Detect	0.00291(J)	Non-Detect
MR-AP-MW-4	3/30/2017	n/a	n/a	n/a	n/a	5.73	930	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-4	4/4/2017	0.536	287	50	0.27	5.7	870	1270	Non-Detect	Non-Detect	0.013	Non-Detect	0.000241(J)	Non-Detect	0.0348	-0.136(U)	0.27	Non-Detect	0.134	Non-Detect	Non-Detect	0.00343(J)	Non-Detect
MR-AP-MW-4	5/16/2017	0.482	279	50	0.28	5.72	780	1420	Non-Detect	Non-Detect	0.0121	Non-Detect	0.000266(J)	Non-Detect	0.0379	0.247(U)	0.28	Non-Detect	0.1	Non-Detect	Non-Detect	0.003(J)	Non-Detect
MR-AP-MW-4	6/12/2017	0.478	258	52	0.27	5.83	790	1380	Non-Detect	Non-Detect	0.0133	Non-Detect	0.000272(J)	Non-Detect	0.0376	0.6	0.27	Non-Detect	0.0992	Non-Detect	Non-Detect	0.00255(J)	Non-Detect
MR-AP-MW-4	9/20/2017	0.506	249	45	0.31	5.86	710	1270	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.31	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-4	1/29/2018	n/a	n/a	n/a	0.28	5.86	n/a	n/a	Non-Detect	Non-Detect	0.0137	Non-Detect	Non-Detect	Non-Detect	0.0171	0.786	0.28	Non-Detect	0.0852	Non-Detect	Non-Detect	0.00273(J)	Non-Detect
MR-AP-MW-4	5/9/2018	0.433	212	39	0.28	5.85	600	1040	Non-Detect	Non-Detect	0.0142	Non-Detect	Non-Detect	Non-Detect	0.0128	-0.00808(U)	0.28	Non-Detect	0.0926	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	10/8/2018	0.503	245	41	0.32	5.86	650	1180	Non-Detect	Non-Detect	0.0119	Non-Detect	Non-Detect	Non-Detect	0.011	0.311(U)	0.32	Non-Detect	0.0877	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	4/29/2019	0.444	271	42.4	0.226	5.91	758	1180	Non-Detect	Non-Detect	0.0146	Non-Detect	Non-Detect	Non-Detect	0.0206	0.0390(U)	0.226	Non-Detect	0.0729	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-4	8/27/2019	0.495	252	42.3	0.237	6.04	670	1120	Non-Detect	Non-Detect	0.014	Non-Detect	Non-Detect	Non-Detect	0.0157	0.533	0.237	Non-Detect	0.0741	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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APPENDIX III									APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-5	7/26/2016	0.873	315	39.1	0.296(J)	7.01	1040	1630	Non-Detect	0.0112	0.0158	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.205(U)	0.296(J)	Non-Detect	0.249	Non-Detect	0.0718	Non-Detect	Non-Detect
MR-AP-MW-5	9/28/2016	0.857	324	40.9	0.224(J)	7.06	1020	1600	Non-Detect	0.00955	0.0153	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.403(U)	0.224(J)	Non-Detect	0.223	Non-Detect	0.0638	Non-Detect	Non-Detect
MR-AP-MW-5	11/2/2016	0.909	305	44.1	0.164(J)	7.02	1000	1640	Non-Detect	0.0129	0.0154	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.483(U)	0.164(J)	Non-Detect	0.229	Non-Detect	0.0665	Non-Detect	Non-Detect
MR-AP-MW-5	1/10/2017	0.915	319	45.2	0.114(J)	7.17	995	1660	Non-Detect	0.0135	0.015	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.687	0.114(J)	Non-Detect	0.227	Non-Detect	0.067	Non-Detect	Non-Detect
MR-AP-MW-5	2/14/2017	0.932	341	44	0.31	7.01	950	1600	Non-Detect	0.0141	0.017	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.5(U)	0.31	Non-Detect	0.315	Non-Detect	0.0735	Non-Detect	Non-Detect
MR-AP-MW-5	4/3/2017	0.932	329	48	0.3	7.09	1100	1600	Non-Detect	0.0141	0.0148	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.637	0.3	Non-Detect	0.307	Non-Detect	0.0719	Non-Detect	Non-Detect
MR-AP-MW-5	5/17/2017	0.953	296	53	0.29	7	930	1630	Non-Detect	0.0138	0.0149	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.421(U)	0.29	Non-Detect	0.247	Non-Detect	0.0733	Non-Detect	Non-Detect
MR-AP-MW-5	6/12/2017	0.854	265	53	0.29	7.08	940	1770	Non-Detect	0.0118	0.0154	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.353(U)	0.29	Non-Detect	0.237	Non-Detect	0.0655	Non-Detect	Non-Detect
MR-AP-MW-5	9/18/2017	0.921	292	45	0.37	7.09	830	1530	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.37	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-5	2/1/2018	n/a	n/a	n/a	0.35	7.13	n/a	n/a	Non-Detect	0.0142	0.0162	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.38(U)	0.35	Non-Detect	0.221	Non-Detect	0.076	Non-Detect	Non-Detect
MR-AP-MW-5	5/9/2018	0.851	265	45	0.36	7.03	790	1430	Non-Detect	0.0114	0.0144	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.515(U)	0.36	Non-Detect	0.238	Non-Detect	0.061	Non-Detect	Non-Detect
MR-AP-MW-5	10/8/2018	0.833	290	44	0.43	7.26	820	1300	Non-Detect	0.0109	0.0149	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.921	0.43	Non-Detect	0.232	Non-Detect	0.0686	Non-Detect	Non-Detect
MR-AP-MW-5	4/23/2019	0.849	330	43.3	0.407	7.03	884	1390	Non-Detect	0.0122	0.0163	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.12	0.407	Non-Detect	0.229	0.000319(J)	0.0731	Non-Detect	Non-Detect
MR-AP-MW-5	8/28/2019	0.852	279	47.1	0.385	7.08	818	1370	Non-Detect	0.0107	0.0158	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.81	0.385	Non-Detect	0.237	Non-Detect	0.0709	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MIR-AP-PZ-5	7/26/2016	0.434	52.8	30.5	1.05	7.88	487	1040	Non-Detect	0.00314(J)	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.331(U)	1.05	Non-Detect	0.228	Non-Detect	0.0122	Non-Detect	Non-Detect
MIR-AP-PZ-5	9/28/2016	0.454	246.4	31.1	0.799	7.8	422	1090	Non-Detect	0.00629	0.0644	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.556(U)	0.799	Non-Detect	0.158	Non-Detect	0.00843(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	11/2/2016	0.46	61.3	30.2	0.627	7.86	345	920	Non-Detect	0.00438(J)	0.0781	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.217(U)	0.627	Non-Detect	0.179	Non-Detect	0.00605(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	1/12/2017	0.471	47.7	29.8	0.609	7.9	281	812	0.000701(J)	0.0039(J)	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.432(U)	0.609	Non-Detect	0.166	Non-Detect	0.0049(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	2/13/2017	0.473	54	33	0.88	7.86	n/a	832	0.00166(J)	0.00443(J)	0.0612	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.279(U)	0.88	Non-Detect	0.243	Non-Detect	0.00784(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	3/30/2017	n/a	n/a	n/a	n/a	8.06	160	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MIR-AP-PZ-5	4/3/2017	0.424	28.7	32	1.1	8	190	710	0.0008(J)	0.00206(J)	0.166	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.195(U)	1.1	Non-Detect	0.216	Non-Detect	0.00474(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	5/17/2017	0.462	26.7	37	1	7.99	190	718	0.000975(J)	0.00306(J)	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.509(U)	1	Non-Detect	0.177	Non-Detect	0.00447(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	6/12/2017	0.418	26.3	34	1.1	7.91	150	724	0.00107(J)	0.00203(J)	0.127	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.48(U)	1.1	Non-Detect	0.161	Non-Detect	0.003(J)	Non-Detect	Non-Detect
MIR-AP-PZ-5	9/18/2017	0.428	20.2	36	1.1	8.04	86	616	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.1	n/a	n/a	n/a	n/a	n/a	n/a
MIR-AP-PZ-5	2/1/2018	n/a	n/a	n/a	1	8.23	n/a	n/a	Non-Detect	0.00181(J)	0.144	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.851	1	Non-Detect	0.133	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MIR-AP-PZ-5	5/9/2018	0.406	13.8	31	1.1	8.6	29	486	0.00103(J)	0.00291(J)	0.131	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.171(U)	1.1	Non-Detect	0.139	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MIR-AP-PZ-5	10/8/2018	0.42	11.1	32	1.3	8.31	4.7(J)	464	Non-Detect	0.00166(J)	0.111	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.44(U)	1.3	Non-Detect	0.137	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MIR-AP-PZ-5	4/23/2019	0.372	11.9	24.9	1.33	8.18	8.17	478	0.0009(J)	Non-Detect	0.176	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.267(U)	1.33	Non-Detect	0.134	0.000311(J)	Non-Detect	Non-Detect	Non-Detect
MIR-AP-PZ-5	8/29/2019	0.319	14.2	28.5	2.07	8.26	92	734	Non-Detect	0.00123(J)	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.355(U)	2.07	Non-Detect	0.164	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-6	7/26/2016	0.835	135	24.8	0.108(J)	5.98	532	868	Non-Detect	Non-Detect	0.0266	Non-Detect	Non-Detect	Non-Detect	0.0648	0.459(U)	0.108(J)	Non-Detect	0.0874	Non-Detect	0.00707(J)	Non-Detect	Non-Detect
MR-AP-MW-6	9/28/2016	0.807	141	24.9	0.054(J)	6	540	884	Non-Detect	Non-Detect	0.0261	Non-Detect	Non-Detect	Non-Detect	0.0673	0.0516(U)	0.054(J)	Non-Detect	0.0812	Non-Detect	0.00623(J)	Non-Detect	Non-Detect
MR-AP-MW-6	11/1/2016	0.838	137	26	Non-Detect	6	521	862	Non-Detect	Non-Detect	0.0265	Non-Detect	Non-Detect	Non-Detect	0.0605	0.279(U)	Non-Detect	Non-Detect	0.0841	Non-Detect	0.0059(J)	Non-Detect	Non-Detect
MR-AP-MW-6	1/9/2017	0.848	140	25.1	Non-Detect	6.04	543	918	Non-Detect	Non-Detect	0.0256	Non-Detect	Non-Detect	Non-Detect	0.0594	0.114(U)	Non-Detect	Non-Detect	0.0842	Non-Detect	0.00476(J)	Non-Detect	Non-Detect
MR-AP-MW-6	2/13/2017	0.869	141	28	0.08(J)	6.04	n/a	896	Non-Detect	Non-Detect	0.0286	Non-Detect	Non-Detect	Non-Detect	0.065	-0.0383(U)	0.08(J)	Non-Detect	0.101	Non-Detect	0.00615(J)	Non-Detect	Non-Detect
MR-AP-MW-6	3/29/2017	n/a	n/a	n/a	n/a	6.01	540	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-6	4/3/2017	0.881	141	29	0.07(J)	6.02	550	852	Non-Detect	Non-Detect	0.0253	Non-Detect	Non-Detect	Non-Detect	0.0701	0.429(U)	0.07(J)	Non-Detect	0.102	Non-Detect	0.00623(J)	Non-Detect	Non-Detect
MR-AP-MW-6	5/16/2017	0.81	145	30	0.09(J)	5.92	490	924	Non-Detect	Non-Detect	0.0268	Non-Detect	Non-Detect	Non-Detect	0.0725	0.0754(U)	0.09(J)	Non-Detect	0.0778	Non-Detect	0.00662(J)	Non-Detect	Non-Detect
MR-AP-MW-6	6/12/2017	0.832	144	31	0.1	5.99	560	928	Non-Detect	Non-Detect	0.026	Non-Detect	Non-Detect	Non-Detect	0.0656	0.506	0.1	Non-Detect	0.0784	Non-Detect	0.00613(J)	Non-Detect	Non-Detect
MR-AP-MW-6	9/18/2017	0.864	144	29	0.11	6.04	510	908	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-6	2/1/2018	n/a	n/a	n/a	0.1	6.05	n/a	n/a	Non-Detect	Non-Detect	0.0264	Non-Detect	Non-Detect	Non-Detect	0.0564	0.433(U)	0.1	Non-Detect	0.0732	Non-Detect	0.00656(J)	Non-Detect	Non-Detect
MR-AP-MW-6	5/9/2018	0.878	150	32	0.09(J)	6.01	500	908	Non-Detect	Non-Detect	0.0242	Non-Detect	Non-Detect	Non-Detect	0.0641	0.106(U)	0.09(J)	Non-Detect	0.079	Non-Detect	0.00525(J)	Non-Detect	Non-Detect
MR-AP-MW-6	10/8/2018	0.905	150	33	0.13	6.1	490	882	Non-Detect	Non-Detect	0.023	Non-Detect	Non-Detect	Non-Detect	0.0616	0.612	0.13	Non-Detect	0.077	Non-Detect	0.00565(J)	Non-Detect	Non-Detect
MR-AP-MW-6	4/23/2019	0.862	167	33	0.167	6.06	638	882	Non-Detect	Non-Detect	0.0256	Non-Detect	Non-Detect	Non-Detect	0.0471	0.356	0.167	Non-Detect	0.0822	Non-Detect	0.00479(J)	Non-Detect	Non-Detect
MR-AP-MW-6	8/28/2019	0.906	148	32.5	0.105	5.98	609	903	Non-Detect	Non-Detect	0.0269	Non-Detect	Non-Detect	Non-Detect	0.0283	0.268(U)	0.105	Non-Detect	0.0853	Non-Detect	0.00285(J)	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-7D	7/21/2016	0.744	115	21.8	0.125(J)	6.71	367	756	Non-Detect	0.00186(J)	0.0343	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.514	0.125(J)	Non-Detect	0.124	Non-Detect	0.0155	Non-Detect	Non-Detect
MR-AP-MW-7D	9/27/2016	0.711	109	22.1	0.068(J)	6.71	347	778	Non-Detect	0.00193(J)	0.0294	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.798	0.068(J)	Non-Detect	0.115	Non-Detect	0.0133	Non-Detect	Non-Detect
MR-AP-MW-7D	11/1/2016	0.745	106	22.4	0.014(J)	6.74	342	746	Non-Detect	0.00177(J)	0.0316	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.657	0.014(J)	Non-Detect	0.117	Non-Detect	0.012	Non-Detect	Non-Detect
MR-AP-MW-7D	1/10/2017	0.733	107	22.2	Non-Detect	6.77	333	714	Non-Detect	0.00185(J)	0.0304	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.427(U)	Non-Detect	Non-Detect	0.107	Non-Detect	0.0108	Non-Detect	Non-Detect
MR-AP-MW-7D	2/14/2017	0.753	114	26	0.07(J)	6.74	320	744	Non-Detect	0.00174(J)	0.0359	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.437(U)	0.07(J)	Non-Detect	0.142	Non-Detect	0.0102	Non-Detect	Non-Detect
MR-AP-MW-7D	4/4/2017	0.755	105	26	0.09(J)	6.66	350	746	Non-Detect	0.00157(J)	0.0295	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.343(U)	0.09(J)	Non-Detect	0.137	Non-Detect	0.0089(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	5/16/2017	0.691	105	26	0.1	6.69	340	772	Non-Detect	0.0015(J)	0.0319	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.625	0.1	Non-Detect	0.109	Non-Detect	0.00836(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	6/13/2017	0.715	110	27	0.1	6.71	360	780	Non-Detect	0.00144(J)	0.0307	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.625(S)	0.1	Non-Detect	0.108	Non-Detect	0.00732(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	9/18/2017	0.734	108	25	0.11	6.77	340	770	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-7D	1/29/2018	n/a	n/a	n/a	0.1	6.75	n/a	n/a	Non-Detect	0.00185(J)	0.0331	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.218(U)	0.1	Non-Detect	0.1	Non-Detect	0.00815(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	5/9/2018	0.727	110	27	0.1	6.7	340	730	Non-Detect	0.00148(J)	0.032	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.395(U)	0.1	Non-Detect	0.107	Non-Detect	0.00604(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	10/9/2018	0.769	114	29	0.12	6.74	360	764	Non-Detect	0.00211(J)	0.0296	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.44(U)	0.12	Non-Detect	0.103	Non-Detect	0.00618(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	4/24/2019	0.756	140	28	0.156	6.63	364	748	Non-Detect	0.00189(J)	0.0326	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.423(U)	0.156	Non-Detect	0.0996	0.000318(J)	0.00612(J)	Non-Detect	Non-Detect
MR-AP-MW-7D	8/28/2019	0.764	113	27.2	0.106	6.58	371	660	Non-Detect	0.00197(J)	0.0361	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.327(U)	0.106	Non-Detect	0.111	Non-Detect	0.00531(J)	Non-Detect	Non-Detect

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APPENDIX III									APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-7S	7/21/2016	0.69	88.2	20.6	0.203(J)	6.51	277	640	Non-Detect	0.00237(J)	0.0415	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.209(U)	0.203(J)	Non-Detect	0.148	Non-Detect	0.0283	Non-Detect	Non-Detect
MR-AP-MW-7S	9/27/2016	0.669	79.1	20.7	0.138(J)	6.51	258	612	Non-Detect	0.00249(J)	0.0355	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.515(U)	0.138(J)	Non-Detect	0.146	Non-Detect	0.029	Non-Detect	Non-Detect
MR-AP-MW-7S	11/1/2016	0.697	78	21.1	0.08(J)	6.51	251	626	Non-Detect	0.00239(J)	0.038	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.315(U)	0.08(J)	Non-Detect	0.15	Non-Detect	0.0262	Non-Detect	Non-Detect
MR-AP-MW-7S	1/10/2017	0.705	85.3	21.3	0.034(J)	6.52	257	610	Non-Detect	0.00267(J)	0.0369	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.207(U)	0.034(J)	Non-Detect	0.141	Non-Detect	0.028	Non-Detect	Non-Detect
MR-AP-MW-7S	2/14/2017	0.722	82.7	24	0.17	6.5	250	608	Non-Detect	0.00272(J)	0.0414	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.315(U)	0.17	Non-Detect	0.18	Non-Detect	0.0293	Non-Detect	Non-Detect
MR-AP-MW-7S	4/4/2017	0.727	81.6	24	0.2	6.4	260	582	Non-Detect	0.00253(J)	0.0349	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.316(U)	0.2	Non-Detect	0.183	Non-Detect	0.0284	Non-Detect	Non-Detect
MR-AP-MW-7S	5/16/2017	0.647	78.6	25	0.18	6.45	250	630	Non-Detect	0.0023(J)	0.0384	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.177(U)	0.18	Non-Detect	0.146	Non-Detect	0.0281	Non-Detect	Non-Detect
MR-AP-MW-7S	6/13/2017	0.673	82.3	26	0.18	6.49	260	636	Non-Detect	0.00222(J)	0.034	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.48	0.18	Non-Detect	0.147	Non-Detect	0.0255	Non-Detect	Non-Detect
MR-AP-MW-7S	9/18/2017	0.697	81.6	24	0.22	6.56	240	618	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-7S	1/30/2018	n/a	n/a	n/a	0.21	6.54	n/a	n/a	Non-Detect	0.00254(J)	0.0381	Non-Detect	Non-Detect	0.00207(J)	Non-Detect	0.53	0.21	Non-Detect	0.14	Non-Detect	0.032	Non-Detect	Non-Detect
MR-AP-MW-7S	5/9/2018	0.692	81.1	25	0.21	6.52	210	542	Non-Detect	0.0025(J)	0.0365	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.248(U)	0.21	Non-Detect	0.15	Non-Detect	0.0278	Non-Detect	Non-Detect
MR-AP-MW-7S	10/9/2018	0.737	82	25	0.25	6.56	220	558	Non-Detect	0.00202(J)	0.0333	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.695	0.25	Non-Detect	0.153	Non-Detect	0.0302	Non-Detect	Non-Detect
MR-AP-MW-7S	4/24/2019	0.73	103	22.9	0.296	6.43	239	574	Non-Detect	0.00245(J)	0.0402	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.148(U)	0.296	Non-Detect	0.148	Non-Detect	0.0325	Non-Detect	Non-Detect
MR-AP-MW-7S	8/28/2019	0.743	83.7	22.7	0.221	6.56	258	568	Non-Detect	0.0021(J)	0.0451	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.864	0.221	Non-Detect	0.158	Non-Detect	0.0349	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-8D	7/25/2016	0.916	46.8	6.35	0.26(J)	6.27	321	592	Non-Detect	0.00116(J)	0.0547	Non-Detect	Non-Detect	Non-Detect	0.0051(J)	0.305(U)	0.26(J)	Non-Detect	0.0373(J)	Non-Detect	0.0173	Non-Detect	Non-Detect
MR-AP-MW-8D	9/28/2016	1.03	52.4	8.42	0.225(J)	6.4	368	698	Non-Detect	0.00144(J)	0.0478	Non-Detect	Non-Detect	Non-Detect	0.00389(J)	0.205(U)	0.225(J)	Non-Detect	0.0356(J)	Non-Detect	0.0242	Non-Detect	Non-Detect
MR-AP-MW-8D	11/1/2016	1.04	58	13.1	0.151(J)	6.41	389	738	Non-Detect	0.00132(J)	0.0521	Non-Detect	Non-Detect	Non-Detect	0.00318(J)	1.13	0.151(J)	Non-Detect	0.0389(J)	Non-Detect	0.0228	Non-Detect	Non-Detect
MR-AP-MW-8D	1/10/2017	1.01	81.2	16.8	0.095(J)	6.36	483	772	Non-Detect	0.00127(J)	0.0452	Non-Detect	Non-Detect	Non-Detect	0.00311(J)	0.0076(U)	0.095(J)	Non-Detect	0.0472(J)	Non-Detect	0.0195	Non-Detect	Non-Detect
MR-AP-MW-8D	2/15/2017	1.05	72.1	14	0.24	6.34	420	772	Non-Detect	Non-Detect	0.0408	Non-Detect	Non-Detect	Non-Detect	0.00327(J)	0.665	0.24	Non-Detect	0.0531	Non-Detect	0.0197	Non-Detect	Non-Detect
MR-AP-MW-8D	4/4/2017	1.15	55.7	8.2	0.3	6.41	320	662	Non-Detect	Non-Detect	0.0311	Non-Detect	Non-Detect	Non-Detect	0.00279(J)	0.278(U)	0.3	Non-Detect	0.0461(J)	Non-Detect	0.0236	Non-Detect	Non-Detect
MR-AP-MW-8D	5/17/2017	1.13	53.7	7.1	0.29	6.36	300	664	Non-Detect	Non-Detect	0.0367	Non-Detect	Non-Detect	Non-Detect	0.0036(J)	0.798(U)	0.29	Non-Detect	0.0402(J)	Non-Detect	0.027	Non-Detect	Non-Detect
MR-AP-MW-8D	6/13/2017	1.13	51.6	7	0.3	6.43	300	632	Non-Detect	Non-Detect	0.0344	Non-Detect	Non-Detect	Non-Detect	0.00333(J)	0.544	0.3	Non-Detect	0.0355(J)	Non-Detect	0.026	Non-Detect	Non-Detect
MR-AP-MW-8D	9/19/2017	1.13	51.5	9.1	0.35	6.32	350	700	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.35	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-8D	1/30/2018	n/a	n/a	n/a	0.35	6.46	n/a	n/a	Non-Detect	0.00161(J)	0.0379	Non-Detect	Non-Detect	Non-Detect	0.00272(J)	0.325(U)	0.35	Non-Detect	0.0419(J)	Non-Detect	0.033	Non-Detect	Non-Detect
MR-AP-MW-8D	5/9/2018	0.76	50	10	0.26	6.11	370	672	Non-Detect	0.00168(J)	0.0311	Non-Detect	Non-Detect	Non-Detect	0.00503(J)	-0.113(U)	0.26	Non-Detect	0.0535	Non-Detect	0.00842(J)	Non-Detect	Non-Detect
MR-AP-MW-8D	10/9/2018	1.16	51.3	9	0.36	6.26	400	694	Non-Detect	0.0012(J)	0.0302	Non-Detect	Non-Detect	Non-Detect	0.00555	0.222(U)	0.36	Non-Detect	0.0494	Non-Detect	0.0168	Non-Detect	Non-Detect
MR-AP-MW-8D	4/24/2019	0.893	54.1	11.2	0.258	5.91	461	724	Non-Detect	0.00146(J)	0.0295	Non-Detect	Non-Detect	Non-Detect	0.00723	-0.104(U)	0.258	Non-Detect	0.0568	0.000303(J)	0.00699(J)	Non-Detect	Non-Detect
MR-AP-MW-8D	8/28/2019	1.05	55.2	10.8	0.214	6.09	439	764	Non-Detect	0.00146(J)	0.0323	Non-Detect	Non-Detect	Non-Detect	0.00697	0.53(U)	0.214	Non-Detect	0.0615	Non-Detect	0.0104	Non-Detect	Non-Detect

**Analytical Data Summary
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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-8S	7/25/2016	1.56	58.5	4.64	0.471	6.7	363	686	Non-Detect	Non-Detect	0.0233	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.323(U)	0.471	Non-Detect	0.0338(J)	Non-Detect	0.0453	Non-Detect	Non-Detect
MR-AP-MW-8S	9/27/2016	1.55	71.1	8.74	0.375	6.71	446	828	0.00062(J)	Non-Detect	0.0245	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0932(U)	0.375	Non-Detect	0.0369(J)	Non-Detect	0.0485	Non-Detect	Non-Detect
MR-AP-MW-8S	11/1/2016	1.47	77.2	16.2	0.259(J)	6.71	471	888	Non-Detect	Non-Detect	0.0285	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0619(U)	0.259(J)	Non-Detect	0.0413(J)	Non-Detect	0.0393	Non-Detect	Non-Detect
MR-AP-MW-8S	1/10/2017	1.52	110	21.7	0.215(J)	6.66	604	1120	Non-Detect	Non-Detect	0.0368	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.291(U)	0.215(J)	Non-Detect	0.0487(J)	Non-Detect	0.0393	Non-Detect	Non-Detect
MR-AP-MW-8S	2/14/2017	1.46	89.3	14	0.36	6.66	460	844	Non-Detect	Non-Detect	0.0337	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.837	0.36	Non-Detect	0.0574	Non-Detect	0.0422	Non-Detect	Non-Detect
MR-AP-MW-8S	4/4/2017	1.58	62.2	6.5	0.43	6.66	370	726	Non-Detect	Non-Detect	0.0212	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.143(U)	0.43	Non-Detect	0.0483(J)	Non-Detect	0.0535	Non-Detect	Non-Detect
MR-AP-MW-8S	5/16/2017	1.45	57.3	4.6	0.43	6.68	320	698	0.000683(J)	Non-Detect	0.0202	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.213(U)	0.43	Non-Detect	0.0329(J)	Non-Detect	0.05	Non-Detect	Non-Detect
MR-AP-MW-8S	6/13/2017	1.59	56.6	4.6	0.43	6.72	330	710	Non-Detect	Non-Detect	0.0179	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.248(U)	0.43	Non-Detect	0.0338(J)	Non-Detect	0.0454	Non-Detect	Non-Detect
MR-AP-MW-8S	9/19/2017	1.76	52.5	4.5	0.57	6.76	310	698	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.57	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-8S	1/30/2018	n/a	n/a	n/a	0.55	6.79	n/a	n/a	Non-Detect	Non-Detect	0.0201	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.289(U)	0.55	Non-Detect	0.0314(J)	Non-Detect	0.0681	Non-Detect	Non-Detect
MR-AP-MW-8S	5/9/2018	1.05	48.6	3.2	0.48	6.69	240	496	0.000744(J)	Non-Detect	0.0195	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.047(U)	0.48	Non-Detect	0.0282(J)	Non-Detect	0.0259	0.00359(J)	Non-Detect
MR-AP-MW-8S	10/9/2018	2.05	55.2	4.7	0.64	6.82	330	716	Non-Detect	Non-Detect	0.0169	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.385(U)	0.64	Non-Detect	0.0295	Non-Detect	0.0532	Non-Detect	Non-Detect
MR-AP-MW-8S	4/24/2019	1.53	53.6	4.06	0.531	6.62	315	596	0.000999(J)	Non-Detect	0.0202	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.175(U)	0.531	Non-Detect	0.0268(J)	0.000334(J)	0.0298	Non-Detect	Non-Detect
MR-AP-MW-8S	8/28/2019	2.06	56.9	4.08	0.565	6.78	366	712	Non-Detect	Non-Detect	0.0217	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.367(U)	0.565	Non-Detect	0.0292	Non-Detect	0.0592	Non-Detect	Non-Detect

**Analytical Data Summary
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APPENDIX III									APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-9D	7/20/2016	0.644	60.6	8.7	0.155(J)	5.76	475	792	Non-Detect	0.00202(J)	0.0144	Non-Detect	Non-Detect	Non-Detect	0.0163	0.466(U)	0.155(J)	Non-Detect	0.0779	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	9/28/2016	0.641	61.2	8.99	0.1(J)	5.75	474	780	Non-Detect	0.00176(J)	0.0141	Non-Detect	Non-Detect	Non-Detect	0.0155	0.0728(U)	0.1(J)	Non-Detect	0.0709	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	11/1/2016	0.671	58	9.34	0.046(J)	5.71	470	800	Non-Detect	0.0021(J)	0.0132	Non-Detect	Non-Detect	Non-Detect	0.0168	0.16(U)	0.046(J)	Non-Detect	0.0733	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	1/10/2017	0.696	62.6	9.94	Non-Detect	5.76	480	832	Non-Detect	0.0022(J)	0.0125	Non-Detect	Non-Detect	Non-Detect	0.0164	0.747	Non-Detect	Non-Detect	0.0743	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	2/15/2017	0.708	68.2	13	0.11	5.69	460	804	Non-Detect	0.00232(J)	0.0129	Non-Detect	Non-Detect	Non-Detect	0.0192	0.0228(U)	0.11	Non-Detect	0.0896	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	4/4/2017	0.716	65.4	13	0.11	5.72	530	808	Non-Detect	0.00218(J)	0.0117	Non-Detect	Non-Detect	Non-Detect	0.0222	0.358(U)	0.11	Non-Detect	0.089	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	5/17/2017	0.735	67.3	14	0.13	5.64	450	822	Non-Detect	0.00207(J)	0.011	Non-Detect	Non-Detect	Non-Detect	0.0194	-0.25(U)	0.13	Non-Detect	0.0783	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	6/13/2017	0.695	65.8	14	0.14	5.69	510	856	Non-Detect	0.00197(J)	0.0108	Non-Detect	Non-Detect	Non-Detect	0.0193	0.828	0.14	Non-Detect	0.0723	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	9/19/2017	0.716	66	13	0.16	5.75	470	824	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-9D	1/30/2018	n/a	n/a	n/a	0.09(J)	5.79	n/a	n/a	Non-Detect	0.0023(J)	0.0148	Non-Detect	Non-Detect	Non-Detect	0.0157	0.0739(U)	0.09(J)	Non-Detect	0.0693	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	5/8/2018	0.722	64.6	12	0.05(J)	5.71	440	810	Non-Detect	0.00211(J)	0.0124	Non-Detect	Non-Detect	Non-Detect	0.0179	0.313(U)	0.05(J)	Non-Detect	0.0738	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	10/9/2018	0.752	63.8	11	0.17	5.71	340	776	Non-Detect	0.00182(J)	0.0108	Non-Detect	Non-Detect	Non-Detect	0.0182	0.419(U)	0.17	Non-Detect	0.0736	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	4/24/2019	0.758	66	11.2	0.205	5.62	486	802	Non-Detect	0.00194(J)	0.0128	Non-Detect	Non-Detect	Non-Detect	0.0207	0.25(U)	0.205	Non-Detect	0.0724	0.000331(J)	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-9D	8/27/2019	0.75	67.7	10.2	0.173	5.44	490	774	Non-Detect	0.00188(J)	0.014	Non-Detect	Non-Detect	Non-Detect	0.0198	0.74	0.173	Non-Detect	0.0801	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
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APPENDIX III									APPENDIX IV															
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002	
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MR-AP-MW-9S	7/20/2016	0.295	91.9	9.28	0.139(J)	5.45	793	1250	Non-Detect	Non-Detect	0.0201	Non-Detect	Non-Detect	Non-Detect	0.00995(J)	0.291(U)	0.139(J)	Non-Detect	0.188	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	9/27/2016	0.282	79.9	9.44	0.086(J)	5.46	674	1120	Non-Detect	Non-Detect	0.0175	Non-Detect	Non-Detect	Non-Detect	0.00686(J)	0.639	0.086(J)	Non-Detect	0.167	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	11/2/2016	0.293	83.8	10.2	0.047(J)	5.37	794	1150	Non-Detect	Non-Detect	0.0175	Non-Detect	Non-Detect	Non-Detect	0.0076(J)	0.851	0.047(J)	Non-Detect	0.181	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	1/12/2017	0.358	62.5	8.44	Non-Detect	5.46	555	866	Non-Detect	Non-Detect	0.0224	Non-Detect	Non-Detect	Non-Detect	0.00419(J)	0.658(U)	Non-Detect	Non-Detect	0.151	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	2/15/2017	0.398	20.9	2.7	0.17	5.96	86	221	Non-Detect	Non-Detect	0.0153	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.76	0.17	Non-Detect	0.0385(J)	Non-Detect	Non-Detect	0.00211(J)	Non-Detect	
MR-AP-MW-9S	4/6/2017	0.367	18.6	5.6	0.2	6.07	65	195	Non-Detect	Non-Detect	0.0132	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.122(U)	0.2	Non-Detect	0.0343(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	5/17/2017	0.358	57.1	8.3	0.14	5.59	410	782	Non-Detect	Non-Detect	0.0314	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.781(U)	0.14	Non-Detect	0.132	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	6/14/2017	0.406	50.7	6.6	0.16	5.71	410	646	Non-Detect	Non-Detect	0.0316	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.285(U)	0.16	Non-Detect	0.103	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	9/19/2017	0.409	50.7	7.1	0.19	5.73	380	664	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.19	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-9S	1/30/2018	n/a	n/a	n/a	0.19	5.88	n/a	n/a	Non-Detect	Non-Detect	0.0188	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.162(U)	0.19	Non-Detect	0.0577	Non-Detect	Non-Detect	0.00357(J)	Non-Detect	
MR-AP-MW-9S	5/8/2018	0.399	57.8	4.2	0.22	5.86	360	646	Non-Detect	Non-Detect	0.0408	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.583	0.22	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	10/9/2018	0.437	51.7	7.5	0.22	5.76	340	616	Non-Detect	Non-Detect	0.0241	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.67	0.22	Non-Detect	0.119	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	4/24/2019	0.757	325	5.42	0.277	5.82	513	838	Non-Detect	Non-Detect	0.0458	Non-Detect	0.000319(J)	Non-Detect	Non-Detect	0.471(U)	0.277	Non-Detect	0.142	0.000345(J)	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-9S	8/27/2019	0.438	77.6	7.56	0.173	5.53	553	892	Non-Detect	Non-Detect	0.0332	Non-Detect	Non-Detect	Non-Detect	0.00264(J)	0.477(U)	0.173	Non-Detect	0.138	Non-Detect	Non-Detect	Non-Detect	Non-Detect	

**Analytical Data Summary
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APPENDIX III									APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-10	7/25/2016	3.36	132	6.41	0.439	6.73	787	1440	Non-Detect	0.00272(J)	0.0185	Non-Detect	Non-Detect	0.0112	0.00273(J)	0.233(U)	0.439	Non-Detect	0.189	Non-Detect	0.115	Non-Detect	Non-Detect
MR-AP-MW-10	9/27/2016	3.18	127	6.3	0.336	6.82	714	1310	Non-Detect	0.00246(J)	0.0131	Non-Detect	Non-Detect	Non-Detect	0.00263(J)	0.82	0.336	Non-Detect	0.171	Non-Detect	0.0985	Non-Detect	Non-Detect
MR-AP-MW-10	10/31/2016	3.32	122	6.36	0.26(J)	6.78	741	1360	Non-Detect	0.00261(J)	0.0124	Non-Detect	Non-Detect	Non-Detect	0.00289(J)	0.37(U)	0.26(J)	Non-Detect	0.181	Non-Detect	0.0971	Non-Detect	Non-Detect
MR-AP-MW-10	1/11/2017	3.05	124	6.65	0.21(J)	6.8	731	1310	Non-Detect	0.00291(J)	0.0122	Non-Detect	Non-Detect	Non-Detect	0.00244(J)	0.668	0.21(J)	Non-Detect	0.172	Non-Detect	0.0866	Non-Detect	Non-Detect
MR-AP-MW-10	2/14/2017	2.87	125	9.2	0.34	6.74	670	1270	Non-Detect	0.00272(J)	0.0151	Non-Detect	Non-Detect	Non-Detect	0.00209(J)	0.36(U)	0.34	Non-Detect	0.209	Non-Detect	0.0895	Non-Detect	Non-Detect
MR-AP-MW-10	4/6/2017	2.87	125	8	0.38	6.73	640	1320	Non-Detect	0.00235(J)	0.0116	Non-Detect	Non-Detect	Non-Detect	0.00226(J)	0.519	0.38	Non-Detect	0.203	Non-Detect	0.0812	Non-Detect	Non-Detect
MR-AP-MW-10	5/17/2017	2.71	124	8.1	0.33	6.73	620	1280	Non-Detect	0.00213(J)	0.0132	Non-Detect	Non-Detect	Non-Detect	0.0021(J)	-0.497(U)	0.33	Non-Detect	0.163	Non-Detect	0.0741	Non-Detect	Non-Detect
MR-AP-MW-10	6/13/2017	2.67	129	8.1	0.34	6.71	950	1310	Non-Detect	0.00218(J)	0.0131	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.147(U)	0.34	Non-Detect	0.155	Non-Detect	0.0719	Non-Detect	Non-Detect
MR-AP-MW-10	9/21/2017	3.08	133	7.7	0.43	6.8	660	1350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.43	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-10	1/31/2018	n/a	n/a	n/a	0.42	6.81	n/a	n/a	Non-Detect	0.00229(J)	0.0138	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.82	0.42	Non-Detect	0.163	Non-Detect	0.0943	Non-Detect	Non-Detect
MR-AP-MW-10	5/10/2018	3.04	132	7.4	0.42	6.77	680	1310	Non-Detect	0.00215(J)	0.0142	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.383(U)	0.42	Non-Detect	0.178	Non-Detect	0.069	Non-Detect	Non-Detect
MR-AP-MW-10	10/8/2018	3.46	164	7.4	0.49	6.86	750	1430	Non-Detect	0.00184(J)	0.0126	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.193(U)	0.49	Non-Detect	0.184	Non-Detect	0.0951	Non-Detect	Non-Detect
MR-AP-MW-10	4/24/2019	3.61	201	7.66	0.433	6.91	950	1460	Non-Detect	0.00193(J)	0.0154	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.601	0.433	Non-Detect	0.186	Non-Detect	0.121	Non-Detect	Non-Detect
MR-AP-MW-10	8/29/2019	4.1	178	6.65	0.445	6.93	847	1550	Non-Detect	0.00177(J)	0.0185	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.437(U)	0.445	Non-Detect	0.197	Non-Detect	0.158	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
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WELL	SAMPLE DATE	APPENDIX III							APPENDIX IV														
		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-11	7/25/2016	0.0282(J)	164	8.3	0.155(J)	6.74	637	456	Non-Detect	Non-Detect	0.052	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.604(U)	0.155(J)	Non-Detect	0.119	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	9/27/2016	0.0253(J)	164	7.94	0.097(J)	6.74	612	1170	Non-Detect	Non-Detect	0.0398	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.65	0.097(J)	Non-Detect	0.108	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	11/1/2016	0.0266(J)	158	7.32	0.038(J)	6.71	619	1160	Non-Detect	Non-Detect	0.0375	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.458(U)	0.038(J)	Non-Detect	0.116	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	1/12/2017	0.0268(J)	163	6.29	Non-Detect	6.61	654	1180	Non-Detect	Non-Detect	0.0291	Non-Detect	Non-Detect	Non-Detect	0.00316(J)	0.308(U)	Non-Detect	Non-Detect	0.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	2/13/2017	0.0263(J)	166	9.1	0.13	6.58	n/a	1130	Non-Detect	Non-Detect	0.0329	Non-Detect	Non-Detect	Non-Detect	0.00227(J)	-0.0581(U)	0.13	Non-Detect	0.149	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	3/30/2017	n/a	n/a	n/a	n/a	6.57	650	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-11	4/4/2017	0.0252(J)	166	7	0.14	6.56	690	1140	Non-Detect	Non-Detect	0.0292	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.288(U)	0.14	Non-Detect	0.154	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	5/16/2017	0.0319(J)	160	7.1	0.14	6.56	590	1080	Non-Detect	Non-Detect	0.0247	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.119(U)	0.14	Non-Detect	0.128	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	6/14/2017	0.026(J)	166	7.9	0.14	6.5	620	1220	Non-Detect	Non-Detect	0.0263	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.129(U)	0.14	Non-Detect	0.118	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	9/19/2017	0.0253(J)	165	6.8	0.16	6.55	630	1140	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-11	2/1/2018	n/a	n/a	n/a	0.12	7.09	n/a	n/a	Non-Detect	Non-Detect	0.0366	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.31(U)	0.12	Non-Detect	0.229	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	5/8/2018	Non-Detect	132	7.3	0.13	7.04	550	1070	Non-Detect	Non-Detect	0.0347	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0757(U)	0.13	Non-Detect	0.246	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	10/9/2018	0.0262(J)	121	6.5	0.15	7.3	450	1010	Non-Detect	Non-Detect	0.0322	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.5	0.15	Non-Detect	0.307	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	5/1/2019	Non-Detect	136	6.46	0.118	6.64	549	996	Non-Detect	Non-Detect	0.04	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.295(U)	0.118	Non-Detect	0.327	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-11	8/28/2019	Non-Detect	138	6.4	0.13	7.22	605	1050	Non-Detect	Non-Detect	0.0387	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.358(U)	0.13	Non-Detect	0.318	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-12	7/20/2016	2.36	178	8.05	0.701	6.63	895	1620	0.00069(J)	0.00169(J)	0.0243	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.271(U)	0.701	Non-Detect	0.229	Non-Detect	0.0267	Non-Detect	Non-Detect
MR-AP-MW-12	9/27/2016	2.14	165	8.37	0.597	6.59	841	1560	0.000757(J)	0.00187(J)	0.0273	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.858	0.597	Non-Detect	0.198	Non-Detect	0.0362	Non-Detect	Non-Detect
MR-AP-MW-12	11/1/2016	2.21	160	8.62	0.502	6.6	829	1580	Non-Detect	0.00203(J)	0.0211	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.456(U)	0.502	Non-Detect	0.204	Non-Detect	0.0329	Non-Detect	Non-Detect
MR-AP-MW-12	1/11/2017	2.04	170	8.33	0.472	6.59	855	1570	Non-Detect	0.00196(J)	0.0208	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.624(U)	0.472	Non-Detect	0.205	Non-Detect	0.0322	Non-Detect	Non-Detect
MR-AP-MW-12	2/15/2017	2.12	173	9.9	0.59	6.59	860	1470	Non-Detect	0.00189(J)	0.0227	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.821	0.59	Non-Detect	0.274	Non-Detect	0.0374	Non-Detect	Non-Detect
MR-AP-MW-12	4/4/2017	2.51	167	9.5	0.67	6.54	1100	1840	0.000652(J)	0.00186(J)	0.021	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.258(U)	0.67	Non-Detect	0.279	Non-Detect	0.036	Non-Detect	Non-Detect
MR-AP-MW-12	5/15/2017	2.54	169	8.1	0.63	6.56	900	1660	0.000849(J)	0.00167(J)	0.0229	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.382(U)	0.63	Non-Detect	0.206	Non-Detect	0.0365	Non-Detect	Non-Detect
MR-AP-MW-12	6/14/2017	2.83	177	8	0.63	6.55	1100	1960	Non-Detect	0.00161(J)	0.0221	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.746	0.63	Non-Detect	0.205	Non-Detect	0.0368	Non-Detect	Non-Detect
MR-AP-MW-12	9/21/2017	3.76	171	7.7	0.66	6.53	1100	2030	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.66	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-12	1/30/2018	n/a	n/a	n/a	0.69	6.59	n/a	n/a	Non-Detect	0.00189(J)	0.0224	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.366(U)	0.69	Non-Detect	0.178	Non-Detect	0.113	Non-Detect	Non-Detect
MR-AP-MW-12	5/8/2018	5.61	173	6.8	0.65	6.49	1400	2400	Non-Detect	0.00222(J)	0.0194	Non-Detect	Non-Detect	Non-Detect	0.00211(J)	0.854(U)	0.65	Non-Detect	0.199	Non-Detect	0.119	Non-Detect	Non-Detect
MR-AP-MW-12	10/8/2018	6.35	174	6.9	0.85	6.51	1500	2630	Non-Detect	0.0024(J)	0.0167	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.717	0.85	Non-Detect	0.19	Non-Detect	0.31	Non-Detect	Non-Detect
MR-AP-MW-12	8/28/2019	7.06	152	7.27	0.916	6.63	1780	2850	Non-Detect	0.00297(J)	0.0177	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.577(U)	0.916	Non-Detect	0.158	Non-Detect	0.646	Non-Detect	Non-Detect

**Analytical Data Summary
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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWFS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-13D	7/20/2016	0.0601(J)	49.9	10.4	0.149(J)	6.75	58.9	307	Non-Detect	0.00239(J)	0.0827	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.324(U)	0.149(J)	Non-Detect	0.0382(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	9/27/2016	0.0979(J)	66.5	13.8	0.076(J)	6.49	115	446	Non-Detect	0.00241(J)	0.0955	Non-Detect	Non-Detect	Non-Detect	0.0021(J)	0.385(U)	0.076(J)	Non-Detect	0.0434(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	11/1/2016	0.108	51.8	12	0.028(J)	6.5	87.8	398	Non-Detect	0.00315(J)	0.0744	Non-Detect	Non-Detect	Non-Detect	0.00214(J)	0.119(U)	0.028(J)	Non-Detect	0.0442(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	1/11/2017	0.0719(J)	47.2	11.7	Non-Detect	6.64	87.1	338	Non-Detect	0.00197(J)	0.0614	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.324(U)	Non-Detect	Non-Detect	0.041(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	2/15/2017	0.0714(J)	50.7	15	0.1	6.61	82	342	Non-Detect	0.00253(J)	0.0741	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.393(U)	0.1	Non-Detect	0.0474(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	4/4/2017	0.0553(J)	48.9	13	0.12	6.66	82	328	Non-Detect	0.00179(J)	0.0668	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.263(U)	0.12	Non-Detect	0.0453(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	5/17/2017	0.0781(J)	48.7	14	0.13	6.7	66	336	Non-Detect	0.0015(J)	0.0725	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.555(U)	0.13	Non-Detect	0.0403(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	6/13/2017	0.0675(J)	49.2	14	0.13	6.69	79	319	Non-Detect	0.00157(J)	0.0812	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.305(U)	0.13	Non-Detect	0.0362(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	9/19/2017	0.0732(J)	47.3	13	0.11	6.76	69	315	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-13D	1/31/2018	n/a	n/a	n/a	0.13	6.81	n/a	n/a	Non-Detect	0.00196(J)	0.0843	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.461	0.13	Non-Detect	0.0343(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	5/8/2018	0.083(J)	47.3	14	0.14	6.72	70	326	Non-Detect	0.00227(J)	0.078	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.441(U)	0.14	Non-Detect	0.0391(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	10/9/2018	0.102	44.6	14	0.18	6.72	54	283	Non-Detect	0.00272(J)	0.0712	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.683	0.18	Non-Detect	0.0404	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	4/24/2019	0.0987(J)	46	14.7	0.199	6.67	92.4	323	Non-Detect	0.00439(J)	0.0726	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.482	0.199	Non-Detect	0.0404(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13D	8/29/2019	0.0961(J)	47.5	13.4	0.144	6.8	82.7	307	Non-Detect	0.00296(J)	0.0876	Non-Detect	Non-Detect	0.00264(J)	Non-Detect	0.287(U)	0.144	Non-Detect	0.0432	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
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WELL	SAMPLE DATE	APPENDIX III							APPENDIX IV														
		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-13S	7/20/2016	0.0816(J)	15.5	8.49	0.106(J)	5.63	125	319	Non-Detect	0.00346(J)	0.021	Non-Detect	Non-Detect	Non-Detect	0.0214	0.0664(U)	0.106(J)	Non-Detect	0.0825	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	9/27/2016	0.0837(J)	14.3	7.85	0.058(J)	5.63	116	306	Non-Detect	0.00306(J)	0.0252	Non-Detect	Non-Detect	Non-Detect	0.0211	0.237(U)	0.058(J)	Non-Detect	0.0801	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	11/1/2016	0.0837(J)	14.3	7.7	0.078(J)	5.58	108	305	Non-Detect	0.00333(J)	0.0201	Non-Detect	Non-Detect	Non-Detect	0.0203	0.724	0.078(J)	Non-Detect	0.0825	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	1/11/2017	0.0795(J)	15.1	6.9	Non-Detect	5.56	128	308	Non-Detect	0.00331(J)	0.0183	Non-Detect	Non-Detect	Non-Detect	0.0198	0.172(U)	Non-Detect	Non-Detect	0.0834	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	2/15/2017	0.0889(J)	15.7	9.4	0.06(J)	5.58	110	305	Non-Detect	0.00367(J)	0.0212	Non-Detect	Non-Detect	Non-Detect	0.0205	1.22	0.06(J)	Non-Detect	0.0908	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	4/6/2017	0.0777(J)	15.1	7.5	0.07(J)	5.53	120	315	Non-Detect	0.00321(J)	0.0175	Non-Detect	Non-Detect	Non-Detect	0.0216	-0.143(U)	0.07(J)	Non-Detect	0.0906	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	5/17/2017	0.095(J)	16.1	8.9	0.09(J)	5.53	110	335	Non-Detect	0.00306(J)	0.0182	Non-Detect	Non-Detect	Non-Detect	0.0209	-0.25(U)	0.09(J)	Non-Detect	0.0841	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	6/13/2017	0.0938(J)	16.2	9.1	0.09(J)	5.57	120	331	Non-Detect	0.00337(J)	0.0195	Non-Detect	Non-Detect	Non-Detect	0.0214	0.412	0.09(J)	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	9/19/2017	0.108	15.9	10	0.11	5.65	120	328	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-13S	1/31/2018	n/a	n/a	n/a	0.09(J)	5.67	n/a	n/a	Non-Detect	0.00394(J)	0.0207	Non-Detect	Non-Detect	Non-Detect	0.0186	0.175(U)	0.09(J)	Non-Detect	0.0725	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	5/8/2018	0.101	16.7	11	0.09(J)	5.6	120	326	Non-Detect	0.00384(J)	0.0202	Non-Detect	Non-Detect	Non-Detect	0.0208	0.592	0.09(J)	Non-Detect	0.0805	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	10/9/2018	0.106	15.8	10	0.12	5.64	120	304	Non-Detect	0.00362(J)	0.018	Non-Detect	Non-Detect	Non-Detect	0.0209	0.657	0.12	Non-Detect	0.0777	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	4/24/2019	0.137(J)	16	9.4	0.161	5.65	131	306	Non-Detect	0.00362(J)	0.0217	Non-Detect	Non-Detect	Non-Detect	0.0237	0.289(U)	0.161	Non-Detect	0.0788	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-13S	8/29/2019	0.11	17.6	9.33	0.103	5.67	137	323	Non-Detect	0.0045(J)	0.0247	Non-Detect	Non-Detect	Non-Detect	0.0228	0.1(U)	0.103	Non-Detect	0.0845	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
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APPENDIX III									APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-14	7/20/2016	0.115	30.5	6.47	0.182(J)	6.35	39.9	207	Non-Detect	Non-Detect	0.0847	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.386(U)	0.182(J)	Non-Detect	0.0206(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	9/26/2016	0.135	29.3	6.48	0.124(J)	6.36	42.2	211	Non-Detect	Non-Detect	0.0926	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.226(U)	0.124(J)	Non-Detect	0.0212(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	10/31/2016	0.153	28.6	6.5	0.074(J)	6.31	42.7	213	Non-Detect	Non-Detect	0.076	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.321(U)	0.074(J)	Non-Detect	0.0221(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	1/9/2017	0.19	30.3	6.4	0.028(J)	6.28	45.5	219	Non-Detect	Non-Detect	0.0727	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.00596(U)	0.028(J)	Non-Detect	0.0226(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	2/14/2017	0.148	31.1	7.8	0.17	6.27	39	199	Non-Detect	Non-Detect	0.0796	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.202(U)	0.17	Non-Detect	0.0225(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	4/4/2017	0.129	31.7	7.6	0.17	6.25	41	209	Non-Detect	Non-Detect	0.0663	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.314(U)	0.17	Non-Detect	0.0221(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	5/17/2017	0.157	32.8	7.8	0.17	6.33	37	213	Non-Detect	Non-Detect	0.0762	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.359(U)	0.17	Non-Detect	0.0213(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	6/13/2017	0.14	33.4	7.5	0.17	6.3	43	217	Non-Detect	Non-Detect	0.0671	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.096(U)	0.17	Non-Detect	0.0203(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	9/19/2017	0.115	33.6	7.5	Non-Detect	6.43	41	230	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-14	2/1/2018	n/a	n/a	n/a	0.17	6.4	n/a	n/a	Non-Detect	Non-Detect	0.0772	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.774	0.17	Non-Detect	0.0183(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	5/8/2018	0.102	34	7.6	0.18	6.38	42	224	Non-Detect	Non-Detect	0.0753	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.65	0.18	Non-Detect	0.0205(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	10/9/2018	0.118	32.8	7.6	0.21	6.41	41	213	Non-Detect	Non-Detect	0.0623	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.631	0.21	Non-Detect	0.0195(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	4/24/2019	0.121(J)	33.6	7.29	0.22	6.44	47.2	218	Non-Detect	Non-Detect	0.0723	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.252(U)	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
MR-AP-MW-14	8/28/2019	0.126	36.5	7.3	0.192	6.31	51.8	213	Non-Detect	Non-Detect	0.0784	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0200(U)	0.192	Non-Detect	0.0213	Non-Detect	Non-Detect	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

		APPENDIX III							APPENDIX IV															
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002	
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MR-AP-MW-15	7/19/2016	0.15	37	16.9	0.111(J)	6.55	69.3	255	Non-Detect	Non-Detect	0.125	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.191(U)	0.111(J)	Non-Detect	0.0199(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	9/26/2016	0.175	37.5	17.1	0.069(J)	6.55	74.7	259	Non-Detect	Non-Detect	0.131	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.663	0.069(J)	Non-Detect	0.0296(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	10/31/2016	0.204	38.4	17.3	0.018(J)	6.49	80.6	265	Non-Detect	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.608	0.018(J)	Non-Detect	0.021(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	1/9/2017	0.192	37.8	17.2	Non-Detect	6.46	77.9	276	Non-Detect	Non-Detect	0.0952	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0687(U)	Non-Detect	Non-Detect	0.0201(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	2/14/2017	0.161	39.2	20	0.1	6.47	68	246	Non-Detect	Non-Detect	0.106	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.459(U)	0.1	Non-Detect	0.022(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	4/4/2017	0.147	37.5	19	0.1	6.38	71	257	Non-Detect	Non-Detect	0.0962	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.327(U)	0.1	Non-Detect	0.0216(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	5/16/2017	0.168	40.4	20	0.1	6.46	62	283	Non-Detect	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.232(U)	0.1	Non-Detect	0.021(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	6/12/2017	0.18	38.4	21	0.1	6.41	77	266	Non-Detect	Non-Detect	0.08	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.123(U)	0.1	Non-Detect	0.0181(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	9/19/2017	0.192	37.8	19	0.12	6.5	72	266	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.12	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-15	1/31/2018	n/a	n/a	n/a	0.1	6.5	n/a	n/a	Non-Detect	Non-Detect	0.07	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.516	0.1	Non-Detect	0.0169(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	5/7/2018	0.258	38.4	20	0.11	6.42	77	264	Non-Detect	Non-Detect	0.071	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.615	0.11	Non-Detect	0.0187(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	10/9/2018	0.237	38.2	20	0.13	6.46	76	239	Non-Detect	Non-Detect	0.0588	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.825	0.13	Non-Detect	0.019(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	4/24/2019	0.243	39	18.3	0.133	6.46	91.9	234	Non-Detect	Non-Detect	0.0765	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.373	0.133	Non-Detect	Non-Detect	0.000316(J)	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-15	8/28/2019	0.863	53.8	19.3	0.0974(J)	6.38	227	397	Non-Detect	Non-Detect	0.0424	Non-Detect	Non-Detect	Non-Detect	0.0021(J)	0.00424(U)	0.0974(J)	Non-Detect	0.0199(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-16	7/19/2016	2.86	185	24.9	0.194(J)	6.07	683	1080	Non-Detect	0.00159(J)	0.044	Non-Detect	0.000222(J)	Non-Detect	0.0507	0.456(U)	0.194(J)	Non-Detect	0.0816	Non-Detect	0.0204	Non-Detect	Non-Detect
MR-AP-MW-16	9/26/2016	2.86	189	29.2	0.158(J)	5.91	707	1140	Non-Detect	Non-Detect	0.0367	Non-Detect	0.000208(J)	Non-Detect	0.0389	0.854	0.158(J)	Non-Detect	0.0636	Non-Detect	0.00799(J)	0.00341(J)	Non-Detect
MR-AP-MW-16	10/31/2016	3.25	163	25.9	0.068(J)	6.19	610	1010	Non-Detect	Non-Detect	0.0277	Non-Detect	Non-Detect	Non-Detect	0.0152	0.268(U)	0.068(J)	Non-Detect	0.0759	Non-Detect	0.0458	Non-Detect	Non-Detect
MR-AP-MW-16	1/9/2017	2.71	214	31.7	Non-Detect	6.03	707	1250	Non-Detect	Non-Detect	0.0323	Non-Detect	Non-Detect	Non-Detect	0.00298(J)	0.118(U)	Non-Detect	Non-Detect	0.0254(J)	Non-Detect	0.00431(J)	0.00273(J)	0.000242(J)
MR-AP-MW-16	2/14/2017	2.39	237	43	0.14	6.13	670	1180	0.000801(J)	Non-Detect	0.0391	Non-Detect	Non-Detect	Non-Detect	0.00507(J)	0.264(U)	0.14	Non-Detect	0.0859	Non-Detect	0.0255	0.00281(J)	Non-Detect
MR-AP-MW-16	4/3/2017	1.86	159	25	0.13	5.97	520	846	Non-Detect	Non-Detect	0.0245	Non-Detect	Non-Detect	Non-Detect	0.00228(J)	0.00348(U)	0.13	Non-Detect	0.0487(J)	Non-Detect	0.0119	0.00262(J)	0.000226(J)
MR-AP-MW-16	5/16/2017	2.67	154	21	0.13	5.97	470	880	Non-Detect	Non-Detect	0.0276	Non-Detect	Non-Detect	Non-Detect	0.00418(J)	0.229(U)	0.13	Non-Detect	0.0297(J)	Non-Detect	0.00405(J)	Non-Detect	Non-Detect
MR-AP-MW-16	6/12/2017	2.81	146	23	0.14	6.1	510	872	Non-Detect	Non-Detect	0.0242	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.226(U)	0.14	Non-Detect	0.0429(J)	Non-Detect	0.0216	Non-Detect	Non-Detect
MR-AP-MW-16	9/19/2017	3	136	19	0.16	6.03	460	848	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
MR-AP-MW-16	2/1/2018	n/a	n/a	n/a	0.12	5.95	n/a	n/a	Non-Detect	Non-Detect	0.0289	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.05	0.12	Non-Detect	0.026(J)	Non-Detect	0.00829(J)	Non-Detect	Non-Detect
MR-AP-MW-16	5/7/2018	2.83	129	16	0.16	6.01	430	742	Non-Detect	Non-Detect	0.0264	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.444(U)	0.16	Non-Detect	0.0538	Non-Detect	0.0256	0.00204(J)	0.0003(J)
MR-AP-MW-16	10/9/2018	2.85	211	24	0.18	6	580	982	Non-Detect	Non-Detect	0.0271	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.15	0.18	Non-Detect	0.0285	Non-Detect	0.0114	Non-Detect	Non-Detect
MR-AP-MW-16	4/24/2019	2.41	139	11.9	0.225	6.01	385	646	0.00107(J)	Non-Detect	0.0252	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.317(U)	0.225	Non-Detect	0.0295(J)	Non-Detect	0.0148	Non-Detect	Non-Detect
MR-AP-MW-16	8/28/2019	3.18	99.5	10.8	0.29	6.34	384	642	Non-Detect	Non-Detect	0.0208	Non-Detect	Non-Detect	Non-Detect	0.00216(J)	0.372(U)	0.29	Non-Detect	0.0555	Non-Detect	0.107	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-21	3/6/2019	0.0619(J)	60.1	9.18	0.169	7.26	116	397	Non-Detect	0.00106(J)	0.0629	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.24(U)	0.169	Non-Detect	0.0484	Non-Detect	0.00411(J)	Non-Detect	Non-Detect
MR-AP-MW-21	8/28/2019	0.0879(J)	63.5	9.75	0.212	7.42	108	446	Non-Detect	0.00129(J)	0.314	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.908	0.212	Non-Detect	0.0493	Non-Detect	0.00208(J)	Non-Detect	Non-Detect

**Analytical Data Summary
Plant Miller Ash Pond
Alabama Power Company**

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.006	5	4	0.015	0.05	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MR-AP-MW-4V	3/5/2019	0.357	229	26.7	0.144	6.5	553	852	0.000933(J)	0.00167(J)	0.0219	Non-Detect	Non-Detect	Non-Detect	0.00889	0.244(U)	0.144	Non-Detect	0.0578	Non-Detect	0.00512(J)	Non-Detect	Non-Detect
MR-AP-MW-4V	8/27/2019	0.51	252	44.5	0.181	6.38	706	1190	Non-Detect	0.00149(J)	0.0187	Non-Detect	Non-Detect	Non-Detect	0.0104	0.948	0.181	Non-Detect	0.0788	Non-Detect	0.00763(J)	Non-Detect	Non-Detect
MR-AP-MW-6V	3/5/2019	0.753	181	27.8	0.14	7.24	526	840	Non-Detect	0.00146(J)	0.0355	Non-Detect	Non-Detect	Non-Detect	0.66	0.14	Non-Detect	0.145	Non-Detect	0.0065(J)	Non-Detect	Non-Detect	
MR-AP-MW-6V	8/28/2019	0.379	89.2	18.9	0.155	7.34	228	560	Non-Detect	0.0151	0.0614	Non-Detect	Non-Detect	0.00361(J)	Non-Detect	0.389(U)	0.155	Non-Detect	0.1	Non-Detect	0.00782(J)	Non-Detect	Non-Detect
MR-AP-MW-17H	3/6/2019	0.0571(J)	47	6.27	0.133	6.98	60.4	389	Non-Detect	Non-Detect	0.65	Non-Detect	Non-Detect	Non-Detect	0.732	0.133	Non-Detect	0.0597	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-17H	8/27/2019	0.0898(J)	48.3	6.42	0.16	6.98	83.6	436	Non-Detect	Non-Detect	0.495	Non-Detect	Non-Detect	Non-Detect	0.701	0.16	Non-Detect	0.0831	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-18H	3/6/2019	0.178	4.86	8.61	0.256	7.39	158	398	Non-Detect	Non-Detect	0.0293	Non-Detect	Non-Detect	Non-Detect	0.229(U)	0.256	Non-Detect	0.1	Non-Detect	0.00498(J)	Non-Detect	Non-Detect	
MR-AP-MW-18H	8/27/2019	0.299	16	58.9	0.26	7.28	427	937	Non-Detect	Non-Detect	0.0361	Non-Detect	Non-Detect	Non-Detect	0.344(U)	0.26	Non-Detect	0.23	Non-Detect	0.0131	Non-Detect	Non-Detect	
MR-AP-MW-20H	3/6/2019	0.699	266	44.5	0.234	7.14	904	1260	Non-Detect	Non-Detect	0.0486	Non-Detect	Non-Detect	Non-Detect	0.995	0.234	Non-Detect	0.235	Non-Detect	0.0391	Non-Detect	Non-Detect	
MR-AP-MW-20H	9/3/2019	0.751	240	43.8	0.279	7.49	820	1320	Non-Detect	0.00104(J)	0.0361	Non-Detect	Non-Detect	Non-Detect	0.144(U)	0.279	Non-Detect	0.278	Non-Detect	0.055	Non-Detect	Non-Detect	
MR-AP-MW-20HS	3/6/2019	0.641	179	38.1	Non-Detect	6.32	619	894	Non-Detect	Non-Detect	0.0711	Non-Detect	Non-Detect	Non-Detect	0.23(U)	Non-Detect	Non-Detect	0.0987	Non-Detect	Non-Detect	Non-Detect	Non-Detect	
MR-AP-MW-20HS	9/3/2019	0.61	161	36.8	Non-Detect	6.34	529	929	Non-Detect	Non-Detect	0.0425	Non-Detect	Non-Detect	Non-Detect	0.37(U)	Non-Detect	Non-Detect	0.0973	Non-Detect	Non-Detect	Non-Detect	Non-Detect	

Appendix B

Miller
Ash Pond

1st
Delineation
Monitoring Event

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

Field Case Narrative



Miller Ash Pond

Delineation Event 1

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

Field quality control procedures were performed as follows:

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

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

Analytical Report



Sample Group : WMWMILAP_1209

Project/Site : Miller Ash Pond
Quinton, AL 35130

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

Attention : Dustin Brooks & Greg Dyer

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

The following data has been reviewed and approved by:

Quality Control:

Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lbmidkif@southernco.com, c=US
Date: 2019.04.02 14:41:13 -0500

Supervision: T. Durant
Maske

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Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2019.04.03 16:11:34 -0500



Total Metals ICP

Miller Ash Pond

WMWMILAP_1209

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>
AZ06018	641331	WMWMILAP_1209
AZ06019	641331	WMWMILAP_1209
AZ06020	641331	WMWMILAP_1209
AZ06021	641331	WMWMILAP_1209
AZ06022	641331	WMWMILAP_1209
AZ06023	641331	WMWMILAP_1209
AZ06024	641331	WMWMILAP_1209
AZ06025	641331	WMWMILAP_1209
AZ06026	641331	WMWMILAP_1209
AZ06027	641331	WMWMILAP_1209

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, except for the following:
 - AZ06027 Sodium MS/MSD spike level is less than 30% of the sample nominal concentration.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ06019	Calcium	x10.15
AZ06020	Calcium	x10.15
AZ06021	Calcium	x10.15
AZ06023	Calcium, Iron, & Sodium	x10.15
AZ06026	Calcium & Iron	x10.15
AZ06027	Sodium	x10.15
AZ06027MS	Sodium	x10.15
AZ06027 MSD	Sodium	x10.15

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



Dissolved Metals ICP

Miller Ash Pond

WMWMILAP_1209

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>
AZ06018	641205	WMWMILAP_1209
AZ06019	641205	WMWMILAP_1209
AZ06020	641205	WMWMILAP_1209
AZ06021	641205	WMWMILAP_1209
AZ06022	641205	WMWMILAP_1209
AZ06023	641205	WMWMILAP_1209
AZ06024	641205	WMWMILAP_1209
AZ06025	641205	WMWMILAP_1209
AZ06026	641205	WMWMILAP_1209
AZ06027	641205	WMWMILAP_1209

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

General Quality Control Procedures:

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



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

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ06026	Iron	x10.15

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



Total Metals ICPMS

Miller Ash Pond

WMWMILAP_1209

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>
AZ06018	641231	WMWMILAP_1209
AZ06019	641231	WMWMILAP_1209
AZ06020	641231	WMWMILAP_1209
AZ06021	641231	WMWMILAP_1209
AZ06022	641231	WMWMILAP_1209
AZ06023	641231	WMWMILAP_1209
AZ06024	641231	WMWMILAP_1209
AZ06025	641231	WMWMILAP_1209
AZ06026	641231	WMWMILAP_1209
AZ06027	641231	WMWMILAP_1209

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 x5.075 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Dissolved Metals ICPMS

Miller Ash Pond

WMWMILAP_1209

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>
AZ06018	640878	WMWMILAP_1209
AZ06019	640878	WMWMILAP_1209
AZ06020	640878	WMWMILAP_1209
AZ06021	640878	WMWMILAP_1209
AZ06022	640878	WMWMILAP_1209
AZ06023	640878	WMWMILAP_1209
AZ06024	640878	WMWMILAP_1209
AZ06025	640878	WMWMILAP_1209
AZ06026	640878	WMWMILAP_1209
AZ06027	640878	WMWMILAP_1209

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

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.



Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x5.075 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Mercury

Miller Ash Pond

WMWMILAP_1209

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>
AZ06018	641598	WMWMILAP_1209
AZ06019	641598	WMWMILAP_1209
AZ06020	641598	WMWMILAP_1209
AZ06021	641598	WMWMILAP_1209
AZ06022	641598	WMWMILAP_1209
AZ06023	641598	WMWMILAP_1209
AZ06024	641598	WMWMILAP_1209
AZ06025	641598	WMWMILAP_1209
AZ06026	641598	WMWMILAP_1209
AZ06027	641598	WMWMILAP_1209

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_1209

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>
AZ06018	641073	WMWMILAP_1209
AZ06019	641073	WMWMILAP_1209
AZ06020	641073	WMWMILAP_1209
AZ06021	641073	WMWMILAP_1209
AZ06022	641073	WMWMILAP_1209
AZ06023	641073	WMWMILAP_1209
AZ06024	641073	WMWMILAP_1209
AZ06025	641073	WMWMILAP_1209
AZ06026	641073	WMWMILAP_1209
AZ06027	641073	WMWMILAP_1209

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - AZ06018
 - AZ06024



Alkalinity

Miller Ash Pond

WMWMILAP_1209

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>
AZ06019	641437 & 641438	WMWMILAP_1209
AZ06020	641437 & 641438	WMWMILAP_1209
AZ06021	641437 & 641438	WMWMILAP_1209
AZ06022	641437 & 641438	WMWMILAP_1209
AZ06023	641437 & 641438	WMWMILAP_1209
AZ06025	641437 & 641438	WMWMILAP_1209
AZ06026	641437 & 641438	WMWMILAP_1209
AZ06027	641437 & 641438	WMWMILAP_1209

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

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



Anions

Miller Ash Pond

WMWMILAP_1209

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>
AZ06018	640819, 640769, & 640770	WMWMILAP_1209
AZ06019	640819, 640769, & 640770	WMWMILAP_1209
AZ06020	640819, 640769, & 640770	WMWMILAP_1209
AZ06021	640819, 640769, & 640770	WMWMILAP_1209
AZ06022	640819, 640769, & 640770	WMWMILAP_1209
AZ06023	640819, 640769, & 640770	WMWMILAP_1209
AZ06024	640819, 640769, & 640770	WMWMILAP_1209
AZ06025	640819, 640769, & 640770	WMWMILAP_1209
AZ06026	640819, 640769, & 640770	WMWMILAP_1209
AZ06027	640819, 640769, & 640770	WMWMILAP_1209

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below 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.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.



Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ06019	Chloride	x3
AZ06020	Chloride	x3
AZ06021	Chloride	x3
AZ06023	Chloride	x5
AZ06026	Chloride	x5
AZ06019	Sulfate	x50
AZ06020	Sulfate	x50
AZ06021	Sulfate	x50
AZ06022	Sulfate	x10
AZ06023	Sulfate	x50
AZ06025	Sulfate	x2
AZ06026	Sulfate	x50
AZ06027	Sulfate	x10

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

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ06018

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00116	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5	U	Not Detected	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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

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

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

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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: WMWMILAPEB
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ06018

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E		1	0.50	1	U Not Detected	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	U Not Detected	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		1	0.50	1	U Not Detected	mg/L

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

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

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

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ06018

Sample	Analysis	Units	MB	MB			LCS			Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ06018

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Prec		
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

CC:

Reported: 4/2/2019
 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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: AZ06019

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	J	0.00167	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0219	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1		0.357	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		229	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000933	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	J	0.00512	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005		0.00889	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	2.24	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05		2.32	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.0578	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		39.9	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	1.39	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		1.32	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5		6.56	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		22.8	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: AZ06019

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B		1		4.00	6.60	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B		1		0.1	82.4	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			0.03	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			82.4	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		50	852	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E		3	1.50	3	26.7	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	0.144	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		50	25.00	50	553	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: AZ06019

Sample	Analysis	Units	MB	MB			LCS			Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: AZ06019

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	pH for Alkalinity	SU						7.03	6.95 to 7.05				
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V DUP

Laboratory ID Number: AZ06020

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	J	0.00175	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0223	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1		0.357	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		224	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000839	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	J	0.00463	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005		0.00865	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	2.33	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05		2.42	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.0575	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		40.3	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	1.39	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		1.28	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5		6.35	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		22.9	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V DUP

Laboratory ID Number: AZ06020

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B		1		4.00	6.63	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B		1		0.1	82.5	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			0.03	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			82.5	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		50	852	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E		3	1.50	3	26.5	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	0.135	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		50	25.00	50	565	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V DUP

Laboratory ID Number: AZ06020

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-4V DUP

Laboratory ID Number: AZ06020

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Prec		
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	pH for Alkalinity	SU						7.03	6.95 to 7.05				
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10

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Expiration: June 30, 2019

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CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6032 or 6171
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: AZ06021

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	J	0.00146	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0355	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1		0.753	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		181	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	J	0.00650	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	5.00	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05		5.51	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.145	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		40.7	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	1.23	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		1.18	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5		4.83	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		57.8	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: AZ06021

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B	1			4.00	7.22	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B	1			0.1	152	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D	1				0.24	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D	1				152	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			50	840	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C	1				03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E	3		1.50	3	27.8	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C	1		0.05	0.1	0.140	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E	50		25.00	50	526	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Alabama Power General Test Laboratory
 744 County Road 87, 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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: AZ06021

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: AZ06021

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS	Rec		Prec	
							Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5
AZ06027	pH for Alkalinity	SU						7.03	6.95 to 7.05				
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-21

Laboratory ID Number: AZ06022

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	J	0.00106	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0629	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1	J	0.0619	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		60.1	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	J	0.00411	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	5.62	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05		6.29	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.0484	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		20.4	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	0.266	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		0.274	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5		2.82	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		51.6	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

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 FAX (205) 257-1654

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-21

Laboratory ID Number: AZ06022

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B		1		4.00	7.35	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B		1		0.1	224	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			0.47	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			224	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		25	397	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E		1	0.50	1	9.18	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	0.169	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		10	5.00	10	116	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-21

Laboratory ID Number: AZ06022

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Alabama Power General Test Laboratory
 744 County Road 87, 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: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-21

Laboratory ID Number: AZ06022

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06027	pH for Alkalinity	SU						7.03	6.95 to 7.05				
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20

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CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: AZ06023

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0486	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1		0.699	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		266	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0391	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	6.72	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		10.15	0.1015	0.5075		9.53	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.235	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		50.3	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	1.50	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		1.48	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5		6.32	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		125	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: AZ06023

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B		1		4.00	7.13	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B		1		0.1	102	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			0.13	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			102	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		100	1260	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E		5	2.50	5	44.5	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	0.234	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		50	25.00	50	904	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: WMWMLAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: AZ06023

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Mangenes, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Mangenes, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: AZ06023

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06027	pH for Alkalinity	SU					7.03		6.95 to 7.05				
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ06024

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5	U	Not Detected	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ06024

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500Cl E		1	0.50	1	U Not Detected	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	U Not Detected	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		1	0.50	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, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

Alabama Power General Test Laboratory
 744 County Road 87, 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: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ06024

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 05-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ06024

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5

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CC:

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-17

Laboratory ID Number: AZ06025

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.650	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1	J	0.0571	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		47.0	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	0.924	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05		0.960	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.0597	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		16.6	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	0.0836	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		0.0790	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5	J	1.14	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		71.3	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-17

Laboratory ID Number: AZ06025

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B	1			4.00	7.29	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B	1			0.1	272	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D	1				0.50	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D	1				271	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			25	389	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C	1				03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E	1		0.50	1	6.27	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C	1		0.05	0.1	0.133	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E	2		1.00	2	60.4	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-17

Laboratory ID Number: AZ06025

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Mangenes, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Mangenes, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-17

Laboratory ID Number: AZ06025

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06027	pH for Alkalinity	SU					7.03		6.95 to 7.05				
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5

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Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: AZ06026

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0711	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1		0.641	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		179	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		10.15	0.1015	0.5075	K	15.7	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		10.15	0.1015	0.5075		15.3	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.0987	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		47.8	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	0.735	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		0.738	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5	J	1.33	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		42.2	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: AZ06026

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B		1		4.00	6.55	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B		1		0.1	57.2	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D		1			57.2	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		50	894	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C		1			03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E		5	2.50	5	38.1	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C		1	0.05	0.1	U Not Detected	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E		50	25.00	50	619	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: AZ06026

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20
AZ06027	Mangenes, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20
AZ06027	Mangenes, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/02/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: AZ06026

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06027	pH for Alkalinity	SU					7.03		6.95 to 7.05				
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5

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Expiration: June 30, 2019

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CC:

Reported: 4/2/2019
 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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: AZ06027

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01		0.0293	mg/L
* Beryllium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.02	0.1		0.178	mg/L
* Calcium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		4.86	mg/L
* Cadmium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	J	0.00498	mg/L
* Lead, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05	K	0.304	mg/L
* Iron, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.05		0.723	mg/L
* Mercury, Total by CVAA	ABB	3/20/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.01	0.02		0.100	mg/L
* Magnesium, Total	GAS	3/18/2019	EPA 200.7		2.03	0.1	0.5		1.28	mg/L
* Manganese, Dissolved	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005	K	0.0375	mg/L
* Manganese, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.001	0.005		0.0390	mg/L
* Potassium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.215	2.5	J	1.03	mg/L
* Sodium, Total	GAS	3/18/2019	EPA 200.7		10.15	1.015	5.075		162	mg/L
* Selenium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/8/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Sodium is out of spec. Spike amount is less than 30% of the sample amount. LBM 04/02/2019

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: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: AZ06027

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	HRG	3/15/2019	SM 4500H+ B	1			4.00	7.63	SU
Alkalinity, Total as CaCO3	HRG	3/15/2019	SM 2320 B	1			0.1	156	mg/L
Carbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D	1				0.62	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	3/15/2019	SM 4500CO2 D	1				155	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			25	398	mg/L
Filter Completion Date	CRB	3/8/2019	SM 2540C	1				03/08/2019	Date
* Chloride	JCC	3/11/2019	SM4500CI E	1		0.50	1	8.61	mg/L
* Fluoride	JCC	3/8/2019	SM4500F C	1		0.05	0.1	0.256	mg/L
* Sulfate	JCC	3/8/2019	SM4500SO4 E	10		5.00	10	158	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: AZ06027

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ06027	Lead, Total	mg/L	-0.00000460	0.0022	0.10	0.101	0.0995	0.102	0.085 to 0.115	101	70 to 130	1.37	20	
AZ06027	Thallium, Total	mg/L	-0.00000077	0.00044	0.10	0.0984	0.0956	0.105	0.085 to 0.115	98.4	70 to 130	2.87	20	
AZ06027	Arsenic, Total	mg/L	-0.00000316	0.0022	0.10	0.0919	0.0921	0.102	0.085 to 0.115	91.9	70 to 130	0.215	20	
AZ06027	Mercury, Total by CVAA	mg/L	0.0000101	0.0005	0.004	0.00380	0.00376	0.00389	0.0034 to 0.0046	94.9	70 to 130	0.953	20	
AZ06027	Lithium, Total	mg/L	-0.000106	0.022	0.20	0.327	0.334	0.202	0.17 to 0.23	114	70 to 130	2.25	20	
AZ06027	Magnesium, Total	mg/L	-0.00158	0.22	5.00	6.50	6.57	5.24	4.25 to 5.75	104	70 to 130	1.04	20	
AZ06027	Chromium, Total	mg/L	-0.0000824	0.0044	0.10	0.0882	0.0888	0.0927	0.085 to 0.115	88.2	70 to 130	0.579	20	
AZ06027	Manganese, Total	mg/L	0.00000935	0.0022	0.10	0.129	0.129	0.0939	0.085 to 0.115	89.7	70 to 130	0.408	20	
AZ06027	Boron, Total	mg/L	-0.00322	0.044	1.00	1.18	1.20	1.02	0.85 to 1.15	99.8	70 to 130	2.33	20	
AZ06027	Iron, Dissolved	mg/L	-0.000544	0.022	0.2	0.508	0.506	0.203	0.17 to 0.23	102	70 to 130	0.531	20	
AZ06027	Beryllium, Total	mg/L	0.0000147	0.00132	0.10	0.101	0.0977	0.104	0.085 to 0.115	101	70 to 130	3.64	20	
AZ06027	Calcium, Total	mg/L	0.00150	0.22	5.00	10.1	10.1	5.28	4.25 to 5.75	104	70 to 130	0.508	20	
AZ06027	Cadmium, Total	mg/L	0.00000075	0.00066	0.10	0.0954	0.0932	0.0952	0.085 to 0.115	95.4	70 to 130	2.31	20	
AZ06027	Sodium, Total	mg/L	0.00624	0.22	5.00	165	173	5.09	4.25 to 5.75	65.1	70 to 130	4.83	20	
AZ06027	Antimony, Total	mg/L	0.000259	0.00176	0.10	0.0984	0.0977	0.0945	0.085 to 0.115	98.4	70 to 130	0.720	20	
AZ06027	Selenium, Total	mg/L	0.0000599	0.0044	0.10	0.0943	0.0950	0.100	0.085 to 0.115	94.3	70 to 130	0.772	20	
AZ06027	Barium, Total	mg/L	-0.00000805	0.0044	0.10	0.117	0.117	0.0949	0.085 to 0.115	88.0	70 to 130	0.421	20	
AZ06027	Cobalt, Total	mg/L	-0.00000728	0.0044	0.10	0.0927	0.0945	0.0959	0.085 to 0.115	92.7	70 to 130	1.96	20	
AZ06027	Potassium, Total	mg/L	0.00305	0.473	10.0	10.8	10.9	9.83	8.5 to 11.5	97.7	70 to 130	0.817	20	
AZ06027	Molybdenum, Total	mg/L	0.00000319	0.0044	0.10	0.103	0.104	0.0986	0.085 to 0.115	97.7	70 to 130	1.58	20	
AZ06027	Iron, Total	mg/L	-0.00194	0.022	0.2	0.904	0.898	0.206	0.17 to 0.23	90.6	70 to 130	0.738	20	
AZ06027	Manganese, Dissolved	mg/L	0.00000073	0.0022	0.10	0.128	0.130		0.085 to 0.115	90.8	70 to 130	1.03	20	

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 06-Mar-19
 Customer ID:
 Delivery Date: 07-Mar-19

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: AZ06027

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ06027	Fluoride	mg/L	-0.0147	0.05	2.50	2.88	0.249	2.58	2.25 to 2.75	105	80 to 120	2.77	20
AZ06027	pH for Alkalinity	SU						7.03	6.95 to 7.05				
AZ06027	Sulfate	mg/L	-0.154	0.50	200	352	165	19.9	18 to 22	97.0	80 to 120	4.33	20
AZ06027	Solids, Dissolved	mg/L	0.0000	25			405	44.0	40 to 60			0.872	5
AZ06027	Chloride	mg/L	-0.0547	0.50	10.0	18.7	8.62	9.91	9 to 11	101	80 to 120	0.116	20
AZ06027	Alkalinity, Total as CaCO3	mg/L					156	50.7	45.0 to 55.0			0.564	10

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CC:



Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
BA	Analyte found in reagent blank is = RL AND is > 1/10 the amount of the sample.
C	Analyte was verified by re-analysis.
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.
E	Estimated reported value exceeded calibration range.
F	Water Field Group (WFG) qualifier; see comments for more information
FA	Field results were reviewed by the Water Field Group.
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.
J	Reported value is an estimate because concentration is less than reporting limit.
K	No MB or LCS were submitted with the sample for dissolved analysis.
L	Check standard is outside of specification limit.
LA	Analyte recovery in the check standard was above specification limit. Results may be biased high.
LL	Analyte recovery in the check standard was below specification limit. Results may be biased low.
M	LOQ verification analyzed with batch was outside of specification limit.
N	Organic constituents tentatively identified. Confirmation is needed.
P	Precision is out of specification limit.
R	Matrix spike recovery or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
S	Surrogate recovery is outside of specification limit.
T	Sample temperature is outside of specification limit.
U	Compound was analyzed, but not detected.

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

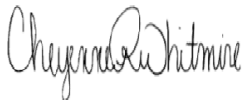
Laboratory Job ID: 400-167103-1

Laboratory Sample Delivery Group: Miller Ash Pond 1209
Client Project/Site: CCR Plant Miller

For:

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

Attn: Laura Midkiff



Authorized for release by:
4/17/2019 12:07:58 PM

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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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

Job ID: 400-167103-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-167103-1

RAD

Method(s) 9315: Ra-226 Prep Batch 160-419688. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ06028 EB-1 (400-167103-1), (LCS 160-419688/1-A), (MB 160-419688/15-A), (440-235644-D-1-B) and (440-235644-D-1-C DU)

Method(s) 9315: Ra-226 Prep Batch 160-419649. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ06029 MW-4V (400-167103-2), AZ06030 MW-4V (400-167103-3), AZ06031 MW-6V (400-167103-4), AZ06032 MW-21 (400-167103-5), AZ06033 MW-20H (400-167103-6), AZ06033 MW-20H (400-167103-6[MS]), AZ06033 MW-20H (400-167103-6[MSD]), AZ06034 FB-1 (400-167103-7), (LCS 160-419649/1-A) and (MB 160-419649/24-A)

Method(s) 9315: Radium-226 Prep Batch: 160-419809. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ06035 MW-17H (400-167103-8), AZ06036 MW-20HS (400-167103-9), AZ06037 MW-18H (400-167103-10), (LCS 160-419809/1-A), (MB 160-419809/24-A), (490-169163-I-5-B), (490-169163-I-5-C MS) and (490-169163-I-5-D MSD)

Method(s) 9320: Ra-228 Prep Batch 160-419695. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ06028 EB-1 (400-167103-1), (LCS 160-419695/1-A), (MB 160-419695/15-A), (440-235644-D-1-D) and (440-235644-D-1-E DU)

Method(s) 9320: Ra-228 Prep Batch 160-419652. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ06029 MW-4V (400-167103-2), AZ06030 MW-4V (400-167103-3), AZ06031 MW-6V (400-167103-4), AZ06032 MW-21 (400-167103-5), AZ06033 MW-20H (400-167103-6), AZ06033 MW-20H (400-167103-6[MS]), AZ06033 MW-20H (400-167103-6[MSD]), AZ06034 FB-1 (400-167103-7), (LCS 160-419652/1-A) and (MB 160-419652/24-A)

Method(s) 9320: Ra-228 Prep Batch 160-419978. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ06035 MW-17H (400-167103-8), AZ06036 MW-20HS (400-167103-9), AZ06037 MW-18H (400-167103-10), (LCS 160-419978/1-A), (MB 160-419978/24-A), (490-169163-I-5-E), (490-169163-I-5-F MS) and (490-169163-I-5-G MSD)

Method Summary

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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-167103-1	AZ06028 EB-1	Water	03/06/19 16:00	03/11/19 10:55
400-167103-2	AZ06029 MW-4V	Water	03/05/19 09:18	03/11/19 10:55
400-167103-3	AZ06030 MW-4V DUP	Water	03/05/19 09:18	03/11/19 10:55
400-167103-4	AZ06031 MW-6V	Water	03/05/19 12:13	03/11/19 10:55
400-167103-5	AZ06032 MW-21	Water	03/06/19 09:18	03/11/19 10:55
400-167103-6	AZ06033 MW-20H	Water	03/06/19 12:30	03/11/19 10:55
400-167103-7	AZ06034 FB-1	Water	03/05/19 12:40	03/11/19 10:55
400-167103-8	AZ06035 MW-17H	Water	03/06/19 10:50	03/11/19 10:55
400-167103-9	AZ06036 MW-20HS	Water	03/06/19 12:33	03/11/19 10:55
400-167103-10	AZ06037 MW-18H	Water	03/06/19 16:00	03/11/19 10:55

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06028 EB-1

Lab Sample ID: 400-167103-1

Date Collected: 03/06/19 16:00

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0455	U	0.0502	0.0504	1.00	0.0799	pCi/L	03/15/19 13:11	04/14/19 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/15/19 13:11	04/14/19 12:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.429		0.248	0.251	1.00	0.379	pCi/L	03/15/19 13:48	04/01/19 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/15/19 13:48	04/01/19 09:39	1
Y Carrier	88.6		40 - 110					03/15/19 13:48	04/01/19 09:39	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	0.474		0.253	0.256	5.00	0.379	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06029 MW-4V

Lab Sample ID: 400-167103-2

Date Collected: 03/05/19 09:18

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0354	U	0.0538	0.0539	1.00	0.0929	pCi/L	03/15/19 09:57	04/13/19 17:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					03/15/19 09:57	04/13/19 17:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.208	U	0.271	0.272	1.00	0.450	pCi/L	03/15/19 10:21	04/03/19 09:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					03/15/19 10:21	04/03/19 09:14	1
Y Carrier	95.0		40 - 110					03/15/19 10:21	04/03/19 09:14	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	0.244	U	0.276	0.277	5.00	0.450	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06030 MW-4V DUP

Lab Sample ID: 400-167103-3

Date Collected: 03/05/19 09:18

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0766	U	0.0651	0.0654	1.00	0.0935	pCi/L	03/15/19 09:57	04/13/19 17:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		40 - 110					03/15/19 09:57	04/13/19 17:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.319	U	0.284	0.286	1.00	0.457	pCi/L	03/15/19 10:21	04/03/19 09:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		40 - 110					03/15/19 10:21	04/03/19 09:14	1
Y Carrier	95.0		40 - 110					03/15/19 10:21	04/03/19 09:14	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	0.396	U	0.291	0.293	5.00	0.457	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06031 MW-6V

Lab Sample ID: 400-167103-4

Date Collected: 03/05/19 12:13

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105		0.0696	0.0702	1.00	0.0913	pCi/L	03/15/19 09:57	04/13/19 17:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					03/15/19 09:57	04/13/19 17:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.555		0.255	0.260	1.00	0.363	pCi/L	03/15/19 10:21	04/03/19 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					03/15/19 10:21	04/03/19 09:18	1
Y Carrier	95.3		40 - 110					03/15/19 10:21	04/03/19 09:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.660		0.264	0.269	5.00	0.363	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06032 MW-21

Lab Sample ID: 400-167103-5

Date Collected: 03/06/19 09:18

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141		0.0733	0.0744	1.00	0.0819	pCi/L	03/15/19 09:57	04/13/19 17:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					03/15/19 09:57	04/13/19 17:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0990	U	0.233	0.233	1.00	0.402	pCi/L	03/15/19 10:21	04/03/19 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					03/15/19 10:21	04/03/19 09:18	1
Y Carrier	86.7		40 - 110					03/15/19 10:21	04/03/19 09:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.240	U	0.244	0.245	5.00	0.402	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06033 MW-20H

Lab Sample ID: 400-167103-6

Date Collected: 03/06/19 12:30

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0710	U	0.0658	0.0661	1.00	0.0991	pCi/L	03/15/19 09:57	04/13/19 17:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					03/15/19 09:57	04/13/19 17:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.924		0.309	0.321	1.00	0.406	pCi/L	03/15/19 10:21	04/03/19 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					03/15/19 10:21	04/03/19 09:18	1
Y Carrier	91.2		40 - 110					03/15/19 10:21	04/03/19 09:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.995		0.316	0.328	5.00	0.406	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06034 FB-1

Lab Sample ID: 400-167103-7

Date Collected: 03/05/19 12:40

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0185	U	0.0459	0.0459	1.00	0.0856	pCi/L	03/15/19 09:57	04/13/19 17:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					03/15/19 09:57	04/13/19 17:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.324		0.204	0.206	1.00	0.310	pCi/L	03/15/19 10:21	04/03/19 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					03/15/19 10:21	04/03/19 09:18	1
Y Carrier	95.7		40 - 110					03/15/19 10:21	04/03/19 09:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.342		0.209	0.211	5.00	0.310	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06035 MW-17H

Lab Sample ID: 400-167103-8

Date Collected: 03/06/19 10:50

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.430		0.129	0.135	1.00	0.109	pCi/L	03/18/19 13:06	04/15/19 21:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					03/18/19 13:06	04/15/19 21:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.302	U	0.296	0.297	1.00	0.480	pCi/L	03/18/19 13:46	04/02/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					03/18/19 13:46	04/02/19 15:57	1
Y Carrier	83.0		40 - 110					03/18/19 13:46	04/02/19 15:57	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	0.732		0.323	0.326	5.00	0.480	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06036 MW-20HS

Lab Sample ID: 400-167103-9

Date Collected: 03/06/19 12:33

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0569	U	0.0905	0.0907	1.00	0.157	pCi/L	03/18/19 13:06	04/15/19 21:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.3		40 - 110					03/18/19 13:06	04/15/19 21:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.173	U	0.374	0.374	1.00	0.643	pCi/L	03/18/19 13:46	04/02/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.3		40 - 110					03/18/19 13:46	04/02/19 15:57	1
Y Carrier	84.5		40 - 110					03/18/19 13:46	04/02/19 15:57	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	0.230	U	0.385	0.385	5.00	0.643	pCi/L		04/17/19 10:30	1

Client Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06037 MW-18H

Lab Sample ID: 400-167103-10

Date Collected: 03/06/19 16:00

Matrix: Water

Date Received: 03/11/19 10:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.126	U	0.0918	0.0924	1.00	0.130	pCi/L	03/18/19 13:06	04/15/19 21:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		40 - 110					03/18/19 13:06	04/15/19 21:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.104	U	0.294	0.294	1.00	0.508	pCi/L	03/18/19 13:46	04/02/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		40 - 110					03/18/19 13:46	04/02/19 15:57	1
Y Carrier	85.2		40 - 110					03/18/19 13:46	04/02/19 15:57	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	0.229	U	0.308	0.308	5.00	0.508	pCi/L		04/17/19 10:30	1

Definitions/Glossary

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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Client Sample ID: AZ06028 EB-1

Lab Sample ID: 400-167103-1

Date Collected: 03/06/19 16:00

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419688	03/15/19 13:11	LTC	TAL SL
Total/NA	Analysis	9315		1	423601	04/14/19 12:09	TJR	TAL SL
Total/NA	Prep	PrecSep_0			419695	03/15/19 13:48	LTC	TAL SL
Total/NA	Analysis	9320		1	422324	04/01/19 09:39	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06029 MW-4V

Lab Sample ID: 400-167103-2

Date Collected: 03/05/19 09:18

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419649	03/15/19 09:57	LTC	TAL SL
Total/NA	Analysis	9315		1	423577	04/13/19 17:44	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419652	03/15/19 10:21	LTC	TAL SL
Total/NA	Analysis	9320		1	422455	04/03/19 09:14	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06030 MW-4V DUP

Lab Sample ID: 400-167103-3

Date Collected: 03/05/19 09:18

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419649	03/15/19 09:57	LTC	TAL SL
Total/NA	Analysis	9315		1	423577	04/13/19 17:44	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419652	03/15/19 10:21	LTC	TAL SL
Total/NA	Analysis	9320		1	422455	04/03/19 09:14	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06031 MW-6V

Lab Sample ID: 400-167103-4

Date Collected: 03/05/19 12:13

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419649	03/15/19 09:57	LTC	TAL SL
Total/NA	Analysis	9315		1	423577	04/13/19 17:45	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419652	03/15/19 10:21	LTC	TAL SL
Total/NA	Analysis	9320		1	422456	04/03/19 09:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

Client Sample ID: AZ06032 MW-21

Lab Sample ID: 400-167103-5

Date Collected: 03/06/19 09:18

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419649	03/15/19 09:57	LTC	TAL SL
Total/NA	Analysis	9315		1	423577	04/13/19 17:45	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419652	03/15/19 10:21	LTC	TAL SL
Total/NA	Analysis	9320		1	422456	04/03/19 09:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06033 MW-20H

Lab Sample ID: 400-167103-6

Date Collected: 03/06/19 12:30

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419649	03/15/19 09:57	LTC	TAL SL
Total/NA	Analysis	9315		1	423577	04/13/19 17:45	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419652	03/15/19 10:21	LTC	TAL SL
Total/NA	Analysis	9320		1	422456	04/03/19 09:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06034 FB-1

Lab Sample ID: 400-167103-7

Date Collected: 03/05/19 12:40

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419649	03/15/19 09:57	LTC	TAL SL
Total/NA	Analysis	9315		1	423577	04/13/19 17:45	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419652	03/15/19 10:21	LTC	TAL SL
Total/NA	Analysis	9320		1	422456	04/03/19 09:18	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06035 MW-17H

Lab Sample ID: 400-167103-8

Date Collected: 03/06/19 10:50

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419809	03/18/19 13:06	LTC	TAL SL
Total/NA	Analysis	9315		1	423835	04/15/19 21:52	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419978	03/18/19 13:46	LTC	TAL SL
Total/NA	Analysis	9320		1	422416	04/02/19 15:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

Client Sample ID: AZ06036 MW-20HS

Lab Sample ID: 400-167103-9

Date Collected: 03/06/19 12:33

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419809	03/18/19 13:06	LTC	TAL SL
Total/NA	Analysis	9315		1	423835	04/15/19 21:52	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419978	03/18/19 13:46	LTC	TAL SL
Total/NA	Analysis	9320		1	422416	04/02/19 15:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Client Sample ID: AZ06037 MW-18H

Lab Sample ID: 400-167103-10

Date Collected: 03/06/19 16:00

Matrix: Water

Date Received: 03/11/19 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			419809	03/18/19 13:06	LTC	TAL SL
Total/NA	Analysis	9315		1	423835	04/15/19 21:53	CDR	TAL SL
Total/NA	Prep	PrecSep_0			419978	03/18/19 13:46	LTC	TAL SL
Total/NA	Analysis	9320		1	422416	04/02/19 15:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	424237	04/17/19 10:30	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Rad

Prep Batch: 419649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-2	AZ06029 MW-4V	Total/NA	Water	PrecSep-21	
400-167103-3	AZ06030 MW-4V DUP	Total/NA	Water	PrecSep-21	
400-167103-4	AZ06031 MW-6V	Total/NA	Water	PrecSep-21	
400-167103-5	AZ06032 MW-21	Total/NA	Water	PrecSep-21	
400-167103-6	AZ06033 MW-20H	Total/NA	Water	PrecSep-21	
400-167103-7	AZ06034 FB-1	Total/NA	Water	PrecSep-21	
MB 160-419649/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-419649/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-167103-6 MS	AZ06033 MW-20H	Total/NA	Water	PrecSep-21	
400-167103-6 MSD	AZ06033 MW-20H	Total/NA	Water	PrecSep-21	

Prep Batch: 419652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-2	AZ06029 MW-4V	Total/NA	Water	PrecSep_0	
400-167103-3	AZ06030 MW-4V DUP	Total/NA	Water	PrecSep_0	
400-167103-4	AZ06031 MW-6V	Total/NA	Water	PrecSep_0	
400-167103-5	AZ06032 MW-21	Total/NA	Water	PrecSep_0	
400-167103-6	AZ06033 MW-20H	Total/NA	Water	PrecSep_0	
400-167103-7	AZ06034 FB-1	Total/NA	Water	PrecSep_0	
MB 160-419652/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-419652/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-167103-6 MS	AZ06033 MW-20H	Total/NA	Water	PrecSep_0	
400-167103-6 MSD	AZ06033 MW-20H	Total/NA	Water	PrecSep_0	

Prep Batch: 419688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-1	AZ06028 EB-1	Total/NA	Water	PrecSep-21	
MB 160-419688/15-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-419688/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
440-235644-D-1-C DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 419695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-1	AZ06028 EB-1	Total/NA	Water	PrecSep_0	
MB 160-419695/15-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-419695/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
440-235644-D-1-E DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 419809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-8	AZ06035 MW-17H	Total/NA	Water	PrecSep-21	
400-167103-9	AZ06036 MW-20HS	Total/NA	Water	PrecSep-21	
400-167103-10	AZ06037 MW-18H	Total/NA	Water	PrecSep-21	
MB 160-419809/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-419809/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
490-169163-I-5-C MS	Matrix Spike	Total/NA	Water	PrecSep-21	
490-169163-I-5-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 419978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-8	AZ06035 MW-17H	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 400-167103-1
SDG: Miller Ash Pond 1209

Rad (Continued)

Prep Batch: 419978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167103-9	AZ06036 MW-20HS	Total/NA	Water	PrecSep_0	
400-167103-10	AZ06037 MW-18H	Total/NA	Water	PrecSep_0	
MB 160-419978/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-419978/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
490-169163-I-5-F MS	Matrix Spike	Total/NA	Water	PrecSep_0	
490-169163-I-5-G MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-419649/24-A
Matrix: Water
Analysis Batch: 423576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419649

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05345	U	0.0672	0.0674	1.00	0.111	pCi/L	03/15/19 09:57	04/13/19 17:29	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					03/15/19 09:57	04/13/19 17:29	1

Lab Sample ID: LCS 160-419649/1-A
Matrix: Water
Analysis Batch: 423577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419649

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.121		0.951	1.00	0.0847	pCi/L	80	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.8		40 - 110						

Lab Sample ID: 400-167103-6 MS
Matrix: Water
Analysis Batch: 423577

Client Sample ID: AZ06033 MW-20H
Prep Type: Total/NA
Prep Batch: 419649

Analyte	Sample Sample		Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0710	U	11.4	10.86		1.14	1.00	0.101	pCi/L	95	75 - 138
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	77.6		40 - 110								

Lab Sample ID: 400-167103-6 MSD
Matrix: Water
Analysis Batch: 423577

Client Sample ID: AZ06033 MW-20H
Prep Type: Total/NA
Prep Batch: 419649

Analyte	Sample Sample		Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.0710	U	11.4	12.45		1.27	1.00	0.106	pCi/L	109	75 - 138	0.66	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	79.6		40 - 110										

Lab Sample ID: MB 160-419688/15-A
Matrix: Water
Analysis Batch: 423601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419688

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.004046	U	0.0348	0.0348	1.00	0.0800	pCi/L	03/15/19 13:11	04/14/19 12:09	1

QC Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

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

Lab Sample ID: MB 160-419688/15-A
Matrix: Water
Analysis Batch: 423601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419688

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110	03/15/19 13:11	04/14/19 12:09	1

Lab Sample ID: LCS 160-419688/1-A
Matrix: Water
Analysis Batch: 423601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419688

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	9.793		1.02	1.00	0.0976	pCi/L	86	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	99.1		40 - 110

Lab Sample ID: 440-235644-D-1-C DU
Matrix: Water
Analysis Batch: 423601

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 419688

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0362	U	0.04952	U	0.0495	1.00	0.0747	pCi/L	0.14	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	92.0		40 - 110

Lab Sample ID: MB 160-419809/24-A
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419809

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1984		0.102	0.104	1.00	0.129	pCi/L	03/18/19 13:06	04/15/19 21:53	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110	03/18/19 13:06	04/15/19 21:53	1

Lab Sample ID: LCS 160-419809/1-A
Matrix: Water
Analysis Batch: 423847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419809

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	9.087		0.965	1.00	0.0842	pCi/L	80	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.6		40 - 110

QC Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

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

Lab Sample ID: 490-169163-I-5-C MS
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 419809

Analyte	Sample	Sample	Spike Added	MS	MS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual						
Radium-226	0.481		11.3	11.72		1.24	1.00	0.118	pCi/L	99	75 - 138
Carrier	%Yield	MS MS Qualifier	Limits								
Ba Carrier	73.2		40 - 110								

Lab Sample ID: 490-169163-I-5-D MSD
Matrix: Water
Analysis Batch: 423835

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 419809

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual								
Radium-226	0.481		11.3	10.74		1.15	1.00	0.115	pCi/L	90	75 - 138	0.41	1
Carrier	%Yield	MSD MSD Qualifier	Limits										
Ba Carrier	71.1		40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-419652/24-A
Matrix: Water
Analysis Batch: 422456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419652

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.07359	U	0.201	0.201	1.00	0.348	pCi/L	03/15/19 10:21	04/03/19 09:20	1
Carrier	%Yield	MB MB Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	101		40 - 110			03/15/19 10:21	04/03/19 09:20	1		
Y Carrier	91.6		40 - 110			03/15/19 10:21	04/03/19 09:20	1		

Lab Sample ID: LCS 160-419652/1-A
Matrix: Water
Analysis Batch: 422455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419652

Analyte	Spike Added	LCS	LCS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual						
Radium-228	9.34	10.46		1.19	1.00	0.437	pCi/L	112	75 - 125
Carrier	LCS LCS %Yield	Qualifier	Limits						
Ba Carrier	96.8		40 - 110						
Y Carrier	89.0		40 - 110						

QC Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

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

Lab Sample ID: 400-167103-6 MS
Matrix: Water
Analysis Batch: 422456

Client Sample ID: AZ06033 MW-20H
Prep Type: Total/NA
Prep Batch: 419652

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
	Result	Qual		Result	Qual							
Radium-228	0.924		9.34	10.36		1.22	1.00	0.446	pCi/L	101	45 - 150	
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	77.6		40 - 110									
Y Carrier	91.6		40 - 110									

Lab Sample ID: 400-167103-6 MSD
Matrix: Water
Analysis Batch: 422456

Client Sample ID: AZ06033 MW-20H
Prep Type: Total/NA
Prep Batch: 419652

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	Limits	RER	Limit
	Result	Qual		Result	Qual									
Radium-228	0.924		9.33	11.23		1.30	1.00	0.412	pCi/L	110	45 - 150	0.35	1	
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	79.6		40 - 110											
Y Carrier	90.8		40 - 110											

Lab Sample ID: MB 160-419695/15-A
Matrix: Water
Analysis Batch: 422324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419695

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac			
	Result	Qualifier									Uncert. (2σ+/-)	Uncert. (2σ+/-)	
Radium-228	0.02578	U	0.210	0.210	1.00	0.371	pCi/L	03/15/19 13:48	04/01/19 09:39	1			
MB MB													
Carrier	%Yield	Qualifier	Limits								Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110								03/15/19 13:48	04/01/19 09:39	1
Y Carrier	87.5		40 - 110								03/15/19 13:48	04/01/19 09:39	1

Lab Sample ID: LCS 160-419695/1-A
Matrix: Water
Analysis Batch: 422324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419695

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
		Result	Qual							
Radium-228	9.34	8.388		0.967	1.00	0.308	pCi/L	90	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	99.1		40 - 110							
Y Carrier	88.6		40 - 110							

QC Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

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

Lab Sample ID: 440-235644-D-1-E DU
Matrix: Water
Analysis Batch: 422324

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 419695

Analyte	Sample	Sample	DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	0.260	U	0.5083		0.249	1.00	0.356	pCi/L	0.49	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.0		40 - 110							
Y Carrier	88.2		40 - 110							

Lab Sample ID: MB 160-419978/24-A
Matrix: Water
Analysis Batch: 422416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419978

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.05371	U	0.241	0.241	1.00	0.430	pCi/L	03/18/19 13:46	04/02/19 15:58	1
MB MB										
Carrier	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	81.4		40 - 110				03/18/19 13:46	04/02/19 15:58	1	
Y Carrier	78.5		40 - 110				03/18/19 13:46	04/02/19 15:58	1	

Lab Sample ID: LCS 160-419978/1-A
Matrix: Water
Analysis Batch: 422398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419978

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
										Radium-228
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.6		40 - 110							
Y Carrier	72.1		40 - 110							

Lab Sample ID: 490-169163-I-5-F MS
Matrix: Water
Analysis Batch: 422416

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 419978

Analyte	Sample	Sample	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual									
Radium-228	0.723		9.33	12.66		1.50	1.00	0.564	pCi/L	128	45 - 150
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	73.2		40 - 110								
Y Carrier	78.5		40 - 110								

QC Sample Results

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

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

Lab Sample ID: 490-169163-I-5-G MSD
Matrix: Water
Analysis Batch: 422416

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 419978

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	0.723		9.33	12.33		1.45	1.00	0.503	pCi/L	124	45 - 150	0.11	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	71.1		40 - 110
Y Carrier	84.9		40 - 110

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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 Sampler: Nick Pitts Client Contact: Laura Milkiff Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6197(Tel) Email: ldmilkiff@southernco.com Project Name: CCR Site: Miller Ash Pond 1209		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericamc.com Carrier Tracking Note: COC No: 400-56525-24537.1 Page: Page 1 of 2 Job #:			
Analysis Requested Due Date Requested: TAT Requested (days): Routine PO #: MO #: Project #: 40007143 SSOV#:		Total Number of Containers: 1 1 1 1 1 3 1 Special Instructions/Note: EB-1 (Equipment Blank) MW-4V MW-4V Dup (Sample Duplicate) MW-6V MW-21 MW-20H FB-1 (Field Blank)			
Sample Identification AZ06028 AZ06029 AZ06030 AZ06031 AZ06032 AZ06033 AZ06034		Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) SM 4500 F ₁ C SM 4500 Cl _E SM 4500 SO ₄ E 9315_Ra226_9320_Ra228_Ra228Ra228_GFPc			
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Dewatered, Effluent, Ash)	Preservation Code	Special Instructions/Note
3/6/19	16:00	G	Water		
3/5/19	09:18	G	Water		
3/5/19	09:18	G	Water		
3/5/19	12:13	G	Water		
3/6/19	09:18	G	Water		
3/6/19	12:30	G	Water		
3/5/19	12:40	G	Water		
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 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: Laura Milkiff Date/Time: 3/7/2019 11:45 Company: APC Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seal No.: _____ Custody Seal No.: _____ Δ Yes Δ No					

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Chain of Custody Record

Client Information		Sampler: Anthony Goggins		Lab PM: Whitmire, Chyenne R		Carrier Tracking No(s):		COC No: 400-56525-24537.1	
Client Contact: Laura Mickliff		Phone:		E-Mail: chyennewhitmire@testamericainc.com		Page: Page 2 of 2		Job #:	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Analysis Requested		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO4 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - Methane W - DI Water X - EDTA Y - EDTA Z - other (specify)	
Address: 744 County Rd 87 GSC #8		TAT Requested (days):		Routine		Total Number of Containers		Special Instructions/Note:	
City: Callera		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (w/water, special preservation, # in case, AAK)	
State, Zip: AL, 35040		3/6/19		10:50		G		Water	
Phone: 205-564-6197(1 tel)		3/6/19		12:33		G		Water	
Email: lbmickliff@southernco.com		3/6/19		16:00		G		Water	
Project Name: CCR		Sample Date		Sample Time		Sample Type		Matrix	
CCR		3/6/19		10:50		G		Water	
Site: Miller Ash Pond 1209		3/6/19		12:33		G		Water	
Project #:		3/6/19		16:00		G		Water	
SSOW#:		3/6/19		10:50		G		Water	
40007143		3/6/19		12:33		G		Water	
40007143		3/6/19		16:00		G		Water	
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Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-167103-1
SDG Number: Miller Ash Pond 1209

Login Number: 167103

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

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	21.5°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 <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	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-167103-1
SDG Number: Miller Ash Pond 1209

Login Number: 167103

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 03/14/19 08:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19



Accreditation/Certification Summary

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

Job ID: 400-167103-1
 SDG: Miller Ash Pond 1209

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD / DOE		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-17H	3/6/2019 9:54	Conductivity	576.4	uS/cm
MR-AP-MW-17H	3/6/2019 9:54	DO	3.52	mg/L
MR-AP-MW-17H	3/6/2019 9:54	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 9:54	Oxidation Reduction Potention	-61.1	mv
MR-AP-MW-17H	3/6/2019 9:54	pH	7.02	pH
MR-AP-MW-17H	3/6/2019 9:54	Temperature	15.86	C
MR-AP-MW-17H	3/6/2019 9:54	Turbidity	10.45	NTU
MR-AP-MW-17H	3/6/2019 9:59	Conductivity	581.4	uS/cm
MR-AP-MW-17H	3/6/2019 9:59	DO	3.11	mg/L
MR-AP-MW-17H	3/6/2019 9:59	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 9:59	Oxidation Reduction Potention	-56	mv
MR-AP-MW-17H	3/6/2019 9:59	pH	6.99	pH
MR-AP-MW-17H	3/6/2019 9:59	Temperature	15.91	C
MR-AP-MW-17H	3/6/2019 9:59	Turbidity	3.76	NTU
MR-AP-MW-17H	3/6/2019 10:04	Conductivity	606.2	uS/cm
MR-AP-MW-17H	3/6/2019 10:04	DO	2.79	mg/L
MR-AP-MW-17H	3/6/2019 10:04	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:04	Oxidation Reduction Potention	-54	mv
MR-AP-MW-17H	3/6/2019 10:04	pH	6.99	pH
MR-AP-MW-17H	3/6/2019 10:04	Temperature	15.92	C
MR-AP-MW-17H	3/6/2019 10:04	Turbidity	2.33	NTU
MR-AP-MW-17H	3/6/2019 10:09	Conductivity	610.7	uS/cm
MR-AP-MW-17H	3/6/2019 10:09	DO	2.37	mg/L
MR-AP-MW-17H	3/6/2019 10:09	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:09	Oxidation Reduction Potention	-53.1	mv
MR-AP-MW-17H	3/6/2019 10:09	pH	6.99	pH
MR-AP-MW-17H	3/6/2019 10:09	Temperature	15.89	C
MR-AP-MW-17H	3/6/2019 10:09	Turbidity	1.38	NTU
MR-AP-MW-17H	3/6/2019 10:14	Conductivity	624	uS/cm
MR-AP-MW-17H	3/6/2019 10:14	DO	1.8	mg/L
MR-AP-MW-17H	3/6/2019 10:14	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:14	Oxidation Reduction Potention	-51.7	mv
MR-AP-MW-17H	3/6/2019 10:14	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:14	Temperature	15.9	C
MR-AP-MW-17H	3/6/2019 10:14	Turbidity	1.03	NTU
MR-AP-MW-17H	3/6/2019 10:19	Conductivity	613.8	uS/cm
MR-AP-MW-17H	3/6/2019 10:19	DO	1.5	mg/L
MR-AP-MW-17H	3/6/2019 10:19	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:19	Oxidation Reduction Potention	-51	mv
MR-AP-MW-17H	3/6/2019 10:19	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:19	Temperature	15.91	C
MR-AP-MW-17H	3/6/2019 10:19	Turbidity	0.93	NTU
MR-AP-MW-17H	3/6/2019 10:24	Conductivity	618.9	uS/cm
MR-AP-MW-17H	3/6/2019 10:24	DO	1.07	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-17H	3/6/2019 10:24	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:24	Oxidation Reduction Potention	-51.7	mv
MR-AP-MW-17H	3/6/2019 10:24	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:24	Temperature	15.93	C
MR-AP-MW-17H	3/6/2019 10:24	Turbidity	0.76	NTU
MR-AP-MW-17H	3/6/2019 10:29	Conductivity	592.9	uS/cm
MR-AP-MW-17H	3/6/2019 10:29	DO	0.88	mg/L
MR-AP-MW-17H	3/6/2019 10:29	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:29	Oxidation Reduction Potention	-52	mv
MR-AP-MW-17H	3/6/2019 10:29	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:29	Temperature	16.04	C
MR-AP-MW-17H	3/6/2019 10:29	Turbidity	0.68	NTU
MR-AP-MW-17H	3/6/2019 10:34	Conductivity	611.6	uS/cm
MR-AP-MW-17H	3/6/2019 10:34	DO	0.77	mg/L
MR-AP-MW-17H	3/6/2019 10:34	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:34	Oxidation Reduction Potention	-51.7	mv
MR-AP-MW-17H	3/6/2019 10:34	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:34	Temperature	16.05	C
MR-AP-MW-17H	3/6/2019 10:34	Turbidity	0.84	NTU
MR-AP-MW-17H	3/6/2019 10:39	Conductivity	616.3	uS/cm
MR-AP-MW-17H	3/6/2019 10:39	DO	0.6	mg/L
MR-AP-MW-17H	3/6/2019 10:39	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:39	Oxidation Reduction Potention	-51.5	mv
MR-AP-MW-17H	3/6/2019 10:39	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:39	Temperature	16.01	C
MR-AP-MW-17H	3/6/2019 10:39	Turbidity	0.79	NTU
MR-AP-MW-17H	3/6/2019 10:44	Conductivity	603.1	uS/cm
MR-AP-MW-17H	3/6/2019 10:44	DO	0.55	mg/L
MR-AP-MW-17H	3/6/2019 10:44	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:44	Oxidation Reduction Potention	-51.2	mv
MR-AP-MW-17H	3/6/2019 10:44	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:44	Temperature	16.04	C
MR-AP-MW-17H	3/6/2019 10:44	Turbidity	0.47	NTU
MR-AP-MW-17H	3/6/2019 10:49	Conductivity	618.9	uS/cm
MR-AP-MW-17H	3/6/2019 10:49	DO	0.56	mg/L
MR-AP-MW-17H	3/6/2019 10:49	Depth to Water Detail	20.2	ft
MR-AP-MW-17H	3/6/2019 10:49	Oxidation Reduction Potention	-50.8	mv
MR-AP-MW-17H	3/6/2019 10:49	pH	6.98	pH
MR-AP-MW-17H	3/6/2019 10:49	Temperature	16.13	C
MR-AP-MW-17H	3/6/2019 10:49	Turbidity	0.55	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	3/6/2019 13:56	Conductivity	612.2	uS/cm
MR-AP-MW-18H	3/6/2019 13:56	DO	1.22	mg/L
MR-AP-MW-18H	3/6/2019 13:56	Depth to Water Detail	158.95	ft
MR-AP-MW-18H	3/6/2019 13:56	Oxidation Reduction Potention	-66.7	mv
MR-AP-MW-18H	3/6/2019 13:56	pH	7.43	pH
MR-AP-MW-18H	3/6/2019 13:56	Temperature	15.56	C
MR-AP-MW-18H	3/6/2019 13:56	Turbidity	21.5	NTU
MR-AP-MW-18H	3/6/2019 14:01	Conductivity	617.1	uS/cm
MR-AP-MW-18H	3/6/2019 14:01	DO	0.97	mg/L
MR-AP-MW-18H	3/6/2019 14:01	Depth to Water Detail	159.45	ft
MR-AP-MW-18H	3/6/2019 14:01	Oxidation Reduction Potention	-67.8	mv
MR-AP-MW-18H	3/6/2019 14:01	pH	7.42	pH
MR-AP-MW-18H	3/6/2019 14:01	Temperature	15.64	C
MR-AP-MW-18H	3/6/2019 14:01	Turbidity	18.9	NTU
MR-AP-MW-18H	3/6/2019 14:06	Conductivity	620.7	uS/cm
MR-AP-MW-18H	3/6/2019 14:06	DO	0.83	mg/L
MR-AP-MW-18H	3/6/2019 14:06	Depth to Water Detail	160.35	ft
MR-AP-MW-18H	3/6/2019 14:06	Oxidation Reduction Potention	-66.8	mv
MR-AP-MW-18H	3/6/2019 14:06	pH	7.41	pH
MR-AP-MW-18H	3/6/2019 14:06	Temperature	15.67	C
MR-AP-MW-18H	3/6/2019 14:06	Turbidity	16.4	NTU
MR-AP-MW-18H	3/6/2019 14:11	Conductivity	624.4	uS/cm
MR-AP-MW-18H	3/6/2019 14:11	DO	0.76	mg/L
MR-AP-MW-18H	3/6/2019 14:11	Depth to Water Detail	160.85	ft
MR-AP-MW-18H	3/6/2019 14:11	Oxidation Reduction Potention	-65.8	mv
MR-AP-MW-18H	3/6/2019 14:11	pH	7.4	pH
MR-AP-MW-18H	3/6/2019 14:11	Temperature	15.65	C
MR-AP-MW-18H	3/6/2019 14:11	Turbidity	14.7	NTU
MR-AP-MW-18H	3/6/2019 14:16	Conductivity	623.5	uS/cm
MR-AP-MW-18H	3/6/2019 14:16	DO	0.7	mg/L
MR-AP-MW-18H	3/6/2019 14:16	Depth to Water Detail	161.45	ft
MR-AP-MW-18H	3/6/2019 14:16	Oxidation Reduction Potention	-65.8	mv
MR-AP-MW-18H	3/6/2019 14:16	pH	7.4	pH
MR-AP-MW-18H	3/6/2019 14:16	Temperature	15.67	C
MR-AP-MW-18H	3/6/2019 14:16	Turbidity	13.8	NTU
MR-AP-MW-18H	3/6/2019 14:21	Conductivity	622.9	uS/cm
MR-AP-MW-18H	3/6/2019 14:21	DO	0.67	mg/L
MR-AP-MW-18H	3/6/2019 14:21	Depth to Water Detail	161.95	ft
MR-AP-MW-18H	3/6/2019 14:21	Oxidation Reduction Potention	-64.9	mv
MR-AP-MW-18H	3/6/2019 14:21	pH	7.39	pH
MR-AP-MW-18H	3/6/2019 14:21	Temperature	15.72	C
MR-AP-MW-18H	3/6/2019 14:21	Turbidity	14.1	NTU
MR-AP-MW-18H	3/6/2019 14:26	Conductivity	620.9	uS/cm
MR-AP-MW-18H	3/6/2019 14:26	DO	0.63	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	3/6/2019 14:26	Depth to Water Detail	162.55	ft
MR-AP-MW-18H	3/6/2019 14:26	Oxidation Reduction Potention	-64.5	mv
MR-AP-MW-18H	3/6/2019 14:26	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 14:26	Temperature	15.78	C
MR-AP-MW-18H	3/6/2019 14:26	Turbidity	12.2	NTU
MR-AP-MW-18H	3/6/2019 14:31	Conductivity	618	uS/cm
MR-AP-MW-18H	3/6/2019 14:31	DO	0.59	mg/L
MR-AP-MW-18H	3/6/2019 14:31	Depth to Water Detail	163.05	ft
MR-AP-MW-18H	3/6/2019 14:31	Oxidation Reduction Potention	-63.4	mv
MR-AP-MW-18H	3/6/2019 14:31	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 14:31	Temperature	15.82	C
MR-AP-MW-18H	3/6/2019 14:31	Turbidity	13.9	NTU
MR-AP-MW-18H	3/6/2019 14:36	Conductivity	614.7	uS/cm
MR-AP-MW-18H	3/6/2019 14:36	DO	0.55	mg/L
MR-AP-MW-18H	3/6/2019 14:36	Depth to Water Detail	163.65	ft
MR-AP-MW-18H	3/6/2019 14:36	Oxidation Reduction Potention	-63.4	mv
MR-AP-MW-18H	3/6/2019 14:36	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 14:36	Temperature	16.05	C
MR-AP-MW-18H	3/6/2019 14:36	Turbidity	11.34	NTU
MR-AP-MW-18H	3/6/2019 14:41	Conductivity	613.3	uS/cm
MR-AP-MW-18H	3/6/2019 14:41	DO	0.54	mg/L
MR-AP-MW-18H	3/6/2019 14:41	Depth to Water Detail	164.2	ft
MR-AP-MW-18H	3/6/2019 14:41	Oxidation Reduction Potention	-62.4	mv
MR-AP-MW-18H	3/6/2019 14:41	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 14:41	Temperature	16.04	C
MR-AP-MW-18H	3/6/2019 14:41	Turbidity	11.15	NTU
MR-AP-MW-18H	3/6/2019 14:46	Conductivity	613	uS/cm
MR-AP-MW-18H	3/6/2019 14:46	DO	0.52	mg/L
MR-AP-MW-18H	3/6/2019 14:46	Depth to Water Detail	164.32	ft
MR-AP-MW-18H	3/6/2019 14:46	Oxidation Reduction Potention	-62.4	mv
MR-AP-MW-18H	3/6/2019 14:46	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 14:46	Temperature	16.04	C
MR-AP-MW-18H	3/6/2019 14:46	Turbidity	11.36	NTU
MR-AP-MW-18H	3/6/2019 14:51	Conductivity	613.8	uS/cm
MR-AP-MW-18H	3/6/2019 14:51	DO	0.51	mg/L
MR-AP-MW-18H	3/6/2019 14:51	Depth to Water Detail	164.75	ft
MR-AP-MW-18H	3/6/2019 14:51	Oxidation Reduction Potention	-62.7	mv
MR-AP-MW-18H	3/6/2019 14:51	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 14:51	Temperature	15.99	C
MR-AP-MW-18H	3/6/2019 14:51	Turbidity	12.33	NTU
MR-AP-MW-18H	3/6/2019 14:56	Conductivity	614.4	uS/cm
MR-AP-MW-18H	3/6/2019 14:56	DO	0.5	mg/L
MR-AP-MW-18H	3/6/2019 14:56	Depth to Water Detail	165.05	ft
MR-AP-MW-18H	3/6/2019 14:56	Oxidation Reduction Potention	-63.1	mv

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	3/6/2019 14:56	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 14:56	Temperature	15.87	C
MR-AP-MW-18H	3/6/2019 14:56	Turbidity	12.5	NTU
MR-AP-MW-18H	3/6/2019 15:01	Conductivity	614.5	uS/cm
MR-AP-MW-18H	3/6/2019 15:01	DO	0.48	mg/L
MR-AP-MW-18H	3/6/2019 15:01	Depth to Water Detail	165.35	ft
MR-AP-MW-18H	3/6/2019 15:01	Oxidation Reduction Potention	-63.9	mv
MR-AP-MW-18H	3/6/2019 15:01	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 15:01	Temperature	15.91	C
MR-AP-MW-18H	3/6/2019 15:01	Turbidity	12.9	NTU
MR-AP-MW-18H	3/6/2019 15:06	Conductivity	612.2	uS/cm
MR-AP-MW-18H	3/6/2019 15:06	DO	0.47	mg/L
MR-AP-MW-18H	3/6/2019 15:06	Depth to Water Detail	165.7	ft
MR-AP-MW-18H	3/6/2019 15:06	Oxidation Reduction Potention	-64.8	mv
MR-AP-MW-18H	3/6/2019 15:06	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 15:06	Temperature	15.86	C
MR-AP-MW-18H	3/6/2019 15:06	Turbidity	11.62	NTU
MR-AP-MW-18H	3/6/2019 15:11	Conductivity	609.7	uS/cm
MR-AP-MW-18H	3/6/2019 15:11	DO	0.47	mg/L
MR-AP-MW-18H	3/6/2019 15:11	Depth to Water Detail	165.92	ft
MR-AP-MW-18H	3/6/2019 15:11	Oxidation Reduction Potention	-66	mv
MR-AP-MW-18H	3/6/2019 15:11	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 15:11	Temperature	15.82	C
MR-AP-MW-18H	3/6/2019 15:11	Turbidity	11.13	NTU
MR-AP-MW-18H	3/6/2019 15:16	Conductivity	614.6	uS/cm
MR-AP-MW-18H	3/6/2019 15:16	DO	0.46	mg/L
MR-AP-MW-18H	3/6/2019 15:16	Depth to Water Detail	166.2	ft
MR-AP-MW-18H	3/6/2019 15:16	Oxidation Reduction Potention	-66.1	mv
MR-AP-MW-18H	3/6/2019 15:16	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 15:16	Temperature	15.77	C
MR-AP-MW-18H	3/6/2019 15:16	Turbidity	11.2	NTU
MR-AP-MW-18H	3/6/2019 15:21	Conductivity	610.3	uS/cm
MR-AP-MW-18H	3/6/2019 15:21	DO	0.45	mg/L
MR-AP-MW-18H	3/6/2019 15:21	Depth to Water Detail	166.45	ft
MR-AP-MW-18H	3/6/2019 15:21	Oxidation Reduction Potention	-67.2	mv
MR-AP-MW-18H	3/6/2019 15:21	pH	7.37	pH
MR-AP-MW-18H	3/6/2019 15:21	Temperature	15.75	C
MR-AP-MW-18H	3/6/2019 15:21	Turbidity	9.07	NTU
MR-AP-MW-18H	3/6/2019 15:26	Conductivity	608.4	uS/cm
MR-AP-MW-18H	3/6/2019 15:26	DO	0.44	mg/L
MR-AP-MW-18H	3/6/2019 15:26	Depth to Water Detail	166.68	ft
MR-AP-MW-18H	3/6/2019 15:26	Oxidation Reduction Potention	-67.9	mv
MR-AP-MW-18H	3/6/2019 15:26	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 15:26	Temperature	15.73	C

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	3/6/2019 15:26	Turbidity	11.6	NTU
MR-AP-MW-18H	3/6/2019 15:31	Conductivity	605.6	uS/cm
MR-AP-MW-18H	3/6/2019 15:31	DO	0.44	mg/L
MR-AP-MW-18H	3/6/2019 15:31	Depth to Water Detail	166.85	ft
MR-AP-MW-18H	3/6/2019 15:31	Oxidation Reduction Potention	-68.7	mv
MR-AP-MW-18H	3/6/2019 15:31	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 15:31	Temperature	15.73	C
MR-AP-MW-18H	3/6/2019 15:31	Turbidity	9.06	NTU
MR-AP-MW-18H	3/6/2019 15:36	Conductivity	601.5	uS/cm
MR-AP-MW-18H	3/6/2019 15:36	DO	0.44	mg/L
MR-AP-MW-18H	3/6/2019 15:36	Depth to Water Detail	167	ft
MR-AP-MW-18H	3/6/2019 15:36	Oxidation Reduction Potention	-69.7	mv
MR-AP-MW-18H	3/6/2019 15:36	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 15:36	Temperature	15.75	C
MR-AP-MW-18H	3/6/2019 15:36	Turbidity	8.92	NTU
MR-AP-MW-18H	3/6/2019 15:42	Conductivity	601.1	uS/cm
MR-AP-MW-18H	3/6/2019 15:42	DO	0.43	mg/L
MR-AP-MW-18H	3/6/2019 15:42	Depth to Water Detail	167.21	ft
MR-AP-MW-18H	3/6/2019 15:42	Oxidation Reduction Potention	-70.6	mv
MR-AP-MW-18H	3/6/2019 15:42	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 15:42	Temperature	15.77	C
MR-AP-MW-18H	3/6/2019 15:42	Turbidity	9.06	NTU
MR-AP-MW-18H	3/6/2019 15:47	Conductivity	595.7	uS/cm
MR-AP-MW-18H	3/6/2019 15:47	DO	0.43	mg/L
MR-AP-MW-18H	3/6/2019 15:47	Depth to Water Detail	167.4	ft
MR-AP-MW-18H	3/6/2019 15:47	Oxidation Reduction Potention	-71.4	mv
MR-AP-MW-18H	3/6/2019 15:47	pH	7.38	pH
MR-AP-MW-18H	3/6/2019 15:47	Temperature	15.75	C
MR-AP-MW-18H	3/6/2019 15:47	Turbidity	9.06	NTU
MR-AP-MW-18H	3/6/2019 15:52	Conductivity	594.8	uS/cm
MR-AP-MW-18H	3/6/2019 15:52	DO	0.43	mg/L
MR-AP-MW-18H	3/6/2019 15:52	Depth to Water Detail	167.52	ft
MR-AP-MW-18H	3/6/2019 15:52	Oxidation Reduction Potention	-72.1	mv
MR-AP-MW-18H	3/6/2019 15:52	pH	7.39	pH
MR-AP-MW-18H	3/6/2019 15:52	Temperature	15.79	C
MR-AP-MW-18H	3/6/2019 15:52	Turbidity	8.25	NTU
MR-AP-MW-18H	3/6/2019 15:57	Conductivity	592.6	uS/cm
MR-AP-MW-18H	3/6/2019 15:57	DO	0.42	mg/L
MR-AP-MW-18H	3/6/2019 15:57	Depth to Water Detail	167.62	ft
MR-AP-MW-18H	3/6/2019 15:57	Oxidation Reduction Potention	-72.8	mv
MR-AP-MW-18H	3/6/2019 15:57	pH	7.39	pH
MR-AP-MW-18H	3/6/2019 15:57	Temperature	15.87	C
MR-AP-MW-18H	3/6/2019 15:57	Turbidity	7.95	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20HS	3/6/2019 11:56	Conductivity	982.9	uS/cm
MR-AP-MW-20HS	3/6/2019 11:56	DO	0.34	mg/L
MR-AP-MW-20HS	3/6/2019 11:56	Depth to Water Detail	40.3	ft
MR-AP-MW-20HS	3/6/2019 11:56	Oxidation Reduction Potention	-36.7	mv
MR-AP-MW-20HS	3/6/2019 11:56	pH	6.36	pH
MR-AP-MW-20HS	3/6/2019 11:56	Temperature	15.91	C
MR-AP-MW-20HS	3/6/2019 11:56	Turbidity	4.3	NTU
MR-AP-MW-20HS	3/6/2019 12:01	Conductivity	993.1	uS/cm
MR-AP-MW-20HS	3/6/2019 12:01	DO	0.29	mg/L
MR-AP-MW-20HS	3/6/2019 12:01	Depth to Water Detail	40.3	ft
MR-AP-MW-20HS	3/6/2019 12:01	Oxidation Reduction Potention	-36.9	mv
MR-AP-MW-20HS	3/6/2019 12:01	pH	6.37	pH
MR-AP-MW-20HS	3/6/2019 12:01	Temperature	15.86	C
MR-AP-MW-20HS	3/6/2019 12:01	Turbidity	6.86	NTU
MR-AP-MW-20HS	3/6/2019 12:06	Conductivity	1071.2	uS/cm
MR-AP-MW-20HS	3/6/2019 12:06	DO	0.27	mg/L
MR-AP-MW-20HS	3/6/2019 12:06	Depth to Water Detail	40.3	ft
MR-AP-MW-20HS	3/6/2019 12:06	Oxidation Reduction Potention	-27	mv
MR-AP-MW-20HS	3/6/2019 12:06	pH	6.35	pH
MR-AP-MW-20HS	3/6/2019 12:06	Temperature	15.92	C
MR-AP-MW-20HS	3/6/2019 12:06	Turbidity	12	NTU
MR-AP-MW-20HS	3/6/2019 12:11	Conductivity	1092.4	uS/cm
MR-AP-MW-20HS	3/6/2019 12:11	DO	0.24	mg/L
MR-AP-MW-20HS	3/6/2019 12:11	Depth to Water Detail	40.3	ft
MR-AP-MW-20HS	3/6/2019 12:11	Oxidation Reduction Potention	-21.6	mv
MR-AP-MW-20HS	3/6/2019 12:11	pH	6.34	pH
MR-AP-MW-20HS	3/6/2019 12:11	Temperature	15.96	C
MR-AP-MW-20HS	3/6/2019 12:11	Turbidity	10.8	NTU
MR-AP-MW-20HS	3/6/2019 12:16	Conductivity	1104.3	uS/cm
MR-AP-MW-20HS	3/6/2019 12:16	DO	0.23	mg/L
MR-AP-MW-20HS	3/6/2019 12:16	Depth to Water Detail	40.35	ft
MR-AP-MW-20HS	3/6/2019 12:16	Oxidation Reduction Potention	-19.2	mv
MR-AP-MW-20HS	3/6/2019 12:16	pH	6.33	pH
MR-AP-MW-20HS	3/6/2019 12:16	Temperature	16	C
MR-AP-MW-20HS	3/6/2019 12:16	Turbidity	11.15	NTU
MR-AP-MW-20HS	3/6/2019 12:21	Conductivity	1108	uS/cm
MR-AP-MW-20HS	3/6/2019 12:21	DO	0.23	mg/L
MR-AP-MW-20HS	3/6/2019 12:21	Depth to Water Detail	40.35	ft
MR-AP-MW-20HS	3/6/2019 12:21	Oxidation Reduction Potention	-17.5	mv
MR-AP-MW-20HS	3/6/2019 12:21	pH	6.33	pH
MR-AP-MW-20HS	3/6/2019 12:21	Temperature	15.99	C
MR-AP-MW-20HS	3/6/2019 12:21	Turbidity	7.86	NTU
MR-AP-MW-20HS	3/6/2019 12:26	Conductivity	1109.9	uS/cm
MR-AP-MW-20HS	3/6/2019 12:26	DO	0.21	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20HS	3/6/2019 12:26	Depth to Water Detail	40.35	ft
MR-AP-MW-20HS	3/6/2019 12:26	Oxidation Reduction Potention	-16.6	mv
MR-AP-MW-20HS	3/6/2019 12:26	pH	6.32	pH
MR-AP-MW-20HS	3/6/2019 12:26	Temperature	16	C
MR-AP-MW-20HS	3/6/2019 12:26	Turbidity	6.75	NTU
MR-AP-MW-20HS	3/6/2019 12:31	Conductivity	1109.5	uS/cm
MR-AP-MW-20HS	3/6/2019 12:31	DO	0.21	mg/L
MR-AP-MW-20HS	3/6/2019 12:31	Depth to Water Detail	40.35	ft
MR-AP-MW-20HS	3/6/2019 12:31	Oxidation Reduction Potention	-15.5	mv
MR-AP-MW-20HS	3/6/2019 12:31	pH	6.32	pH
MR-AP-MW-20HS	3/6/2019 12:31	Temperature	15.95	C
MR-AP-MW-20HS	3/6/2019 12:31	Turbidity	4.72	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-4V	3/5/2019 9:01	Conductivity	1020.7	uS/cm
MR-AP-MW-4V	3/5/2019 9:01	DO	0.31	mg/L
MR-AP-MW-4V	3/5/2019 9:01	Depth to Water Detail	85.3	ft
MR-AP-MW-4V	3/5/2019 9:01	Oxidation Reduction Potention	31.3	mv
MR-AP-MW-4V	3/5/2019 9:01	pH	6.5	pH
MR-AP-MW-4V	3/5/2019 9:01	Temperature	16.74	C
MR-AP-MW-4V	3/5/2019 9:01	Turbidity	6.04	NTU
MR-AP-MW-4V	3/5/2019 9:06	Conductivity	1037.2	uS/cm
MR-AP-MW-4V	3/5/2019 9:06	DO	0.21	mg/L
MR-AP-MW-4V	3/5/2019 9:06	Depth to Water Detail	85.3	ft
MR-AP-MW-4V	3/5/2019 9:06	Oxidation Reduction Potention	33	mv
MR-AP-MW-4V	3/5/2019 9:06	pH	6.49	pH
MR-AP-MW-4V	3/5/2019 9:06	Temperature	16.58	C
MR-AP-MW-4V	3/5/2019 9:06	Turbidity	3.04	NTU
MR-AP-MW-4V	3/5/2019 9:11	Conductivity	1063	uS/cm
MR-AP-MW-4V	3/5/2019 9:11	DO	0.19	mg/L
MR-AP-MW-4V	3/5/2019 9:11	Depth to Water Detail	85.3	ft
MR-AP-MW-4V	3/5/2019 9:11	Oxidation Reduction Potention	32.7	mv
MR-AP-MW-4V	3/5/2019 9:11	pH	6.49	pH
MR-AP-MW-4V	3/5/2019 9:11	Temperature	16.61	C
MR-AP-MW-4V	3/5/2019 9:11	Turbidity	2.5	NTU
MR-AP-MW-4V	3/5/2019 9:16	Conductivity	1066.2	uS/cm
MR-AP-MW-4V	3/5/2019 9:16	DO	0.17	mg/L
MR-AP-MW-4V	3/5/2019 9:16	Depth to Water Detail	85.3	ft
MR-AP-MW-4V	3/5/2019 9:16	Oxidation Reduction Potention	33	mv
MR-AP-MW-4V	3/5/2019 9:16	pH	6.5	pH
MR-AP-MW-4V	3/5/2019 9:16	Temperature	16.47	C
MR-AP-MW-4V	3/5/2019 9:16	Turbidity	1.91	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6V	3/5/2019 11:42	Conductivity	1065.9	uS/cm
MR-AP-MW-6V	3/5/2019 11:42	DO	0.32	mg/L
MR-AP-MW-6V	3/5/2019 11:42	Depth to Water Detail	114.2	ft
MR-AP-MW-6V	3/5/2019 11:42	Oxidation Reduction Potention	-19.9	mv
MR-AP-MW-6V	3/5/2019 11:42	pH	7.09	pH
MR-AP-MW-6V	3/5/2019 11:42	Temperature	15.71	C
MR-AP-MW-6V	3/5/2019 11:42	Turbidity	40.6	NTU
MR-AP-MW-6V	3/5/2019 11:47	Conductivity	1072.7	uS/cm
MR-AP-MW-6V	3/5/2019 11:47	DO	0.27	mg/L
MR-AP-MW-6V	3/5/2019 11:47	Depth to Water Detail	114.3	ft
MR-AP-MW-6V	3/5/2019 11:47	Oxidation Reduction Potention	-55.6	mv
MR-AP-MW-6V	3/5/2019 11:47	pH	7.18	pH
MR-AP-MW-6V	3/5/2019 11:47	Temperature	15.92	C
MR-AP-MW-6V	3/5/2019 11:47	Turbidity	23.8	NTU
MR-AP-MW-6V	3/5/2019 11:52	Conductivity	1077.5	uS/cm
MR-AP-MW-6V	3/5/2019 11:52	DO	0.25	mg/L
MR-AP-MW-6V	3/5/2019 11:52	Depth to Water Detail	114.3	ft
MR-AP-MW-6V	3/5/2019 11:52	Oxidation Reduction Potention	-68.9	mv
MR-AP-MW-6V	3/5/2019 11:52	pH	7.23	pH
MR-AP-MW-6V	3/5/2019 11:52	Temperature	15.67	C
MR-AP-MW-6V	3/5/2019 11:52	Turbidity	18.1	NTU
MR-AP-MW-6V	3/5/2019 11:57	Conductivity	1094.3	uS/cm
MR-AP-MW-6V	3/5/2019 11:57	DO	0.23	mg/L
MR-AP-MW-6V	3/5/2019 11:57	Depth to Water Detail	114.3	ft
MR-AP-MW-6V	3/5/2019 11:57	Oxidation Reduction Potention	-73.9	mv
MR-AP-MW-6V	3/5/2019 11:57	pH	7.23	pH
MR-AP-MW-6V	3/5/2019 11:57	Temperature	15.84	C
MR-AP-MW-6V	3/5/2019 11:57	Turbidity	11.6	NTU
MR-AP-MW-6V	3/5/2019 12:02	Conductivity	1096.3	uS/cm
MR-AP-MW-6V	3/5/2019 12:02	DO	0.21	mg/L
MR-AP-MW-6V	3/5/2019 12:02	Depth to Water Detail	114.3	ft
MR-AP-MW-6V	3/5/2019 12:02	Oxidation Reduction Potention	-76.9	mv
MR-AP-MW-6V	3/5/2019 12:02	pH	7.24	pH
MR-AP-MW-6V	3/5/2019 12:02	Temperature	15.8	C
MR-AP-MW-6V	3/5/2019 12:02	Turbidity	7.23	NTU
MR-AP-MW-6V	3/5/2019 12:07	Conductivity	1099.6	uS/cm
MR-AP-MW-6V	3/5/2019 12:07	DO	0.2	mg/L
MR-AP-MW-6V	3/5/2019 12:07	Depth to Water Detail	114.3	ft
MR-AP-MW-6V	3/5/2019 12:07	Oxidation Reduction Potention	-78.8	mv
MR-AP-MW-6V	3/5/2019 12:07	pH	7.24	pH
MR-AP-MW-6V	3/5/2019 12:07	Temperature	15.98	C
MR-AP-MW-6V	3/5/2019 12:07	Turbidity	8.3	NTU
MR-AP-MW-6V	3/5/2019 12:12	Conductivity	1104.4	uS/cm
MR-AP-MW-6V	3/5/2019 12:12	DO	0.2	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6V	3/5/2019 12:12	Depth to Water Detail	114.3	ft
MR-AP-MW-6V	3/5/2019 12:12	Oxidation Reduction Potention	-80.4	mv
MR-AP-MW-6V	3/5/2019 12:12	pH	7.24	pH
MR-AP-MW-6V	3/5/2019 12:12	Temperature	15.93	C
MR-AP-MW-6V	3/5/2019 12:12	Turbidity	7.97	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20H	3/6/2019 11:47	Conductivity	1596.3	uS/cm
MR-AP-MW-20H	3/6/2019 11:47	DO	3.55	mg/L
MR-AP-MW-20H	3/6/2019 11:47	Depth to Water Detail	122.8	ft
MR-AP-MW-20H	3/6/2019 11:47	Oxidation Reduction Potention	-80.5	mv
MR-AP-MW-20H	3/6/2019 11:47	pH	7.13	pH
MR-AP-MW-20H	3/6/2019 11:47	Temperature	15.26	C
MR-AP-MW-20H	3/6/2019 11:47	Turbidity	32.6	NTU
MR-AP-MW-20H	3/6/2019 11:52	Conductivity	1605.4	uS/cm
MR-AP-MW-20H	3/6/2019 11:52	DO	4.81	mg/L
MR-AP-MW-20H	3/6/2019 11:52	Depth to Water Detail	122.82	ft
MR-AP-MW-20H	3/6/2019 11:52	Oxidation Reduction Potention	-76.1	mv
MR-AP-MW-20H	3/6/2019 11:52	pH	7.13	pH
MR-AP-MW-20H	3/6/2019 11:52	Temperature	15.21	C
MR-AP-MW-20H	3/6/2019 11:52	Turbidity	19.1	NTU
MR-AP-MW-20H	3/6/2019 11:57	Conductivity	1603.2	uS/cm
MR-AP-MW-20H	3/6/2019 11:57	DO	5.03	mg/L
MR-AP-MW-20H	3/6/2019 11:57	Depth to Water Detail	122.88	ft
MR-AP-MW-20H	3/6/2019 11:57	Oxidation Reduction Potention	-75.4	mv
MR-AP-MW-20H	3/6/2019 11:57	pH	7.14	pH
MR-AP-MW-20H	3/6/2019 11:57	Temperature	15.44	C
MR-AP-MW-20H	3/6/2019 11:57	Turbidity	17	NTU
MR-AP-MW-20H	3/6/2019 12:02	Conductivity	1601.3	uS/cm
MR-AP-MW-20H	3/6/2019 12:02	DO	5.5	mg/L
MR-AP-MW-20H	3/6/2019 12:02	Depth to Water Detail	122.9	ft
MR-AP-MW-20H	3/6/2019 12:02	Oxidation Reduction Potention	-74.1	mv
MR-AP-MW-20H	3/6/2019 12:02	pH	7.14	pH
MR-AP-MW-20H	3/6/2019 12:02	Temperature	15.4	C
MR-AP-MW-20H	3/6/2019 12:02	Turbidity	11.6	NTU
MR-AP-MW-20H	3/6/2019 12:07	Conductivity	1595.1	uS/cm
MR-AP-MW-20H	3/6/2019 12:07	DO	6.27	mg/L
MR-AP-MW-20H	3/6/2019 12:07	Depth to Water Detail	122.9	ft
MR-AP-MW-20H	3/6/2019 12:07	Oxidation Reduction Potention	-72.1	mv
MR-AP-MW-20H	3/6/2019 12:07	pH	7.13	pH
MR-AP-MW-20H	3/6/2019 12:07	Temperature	15.48	C
MR-AP-MW-20H	3/6/2019 12:07	Turbidity	11.08	NTU
MR-AP-MW-20H	3/6/2019 12:12	Conductivity	1589.8	uS/cm
MR-AP-MW-20H	3/6/2019 12:12	DO	6.72	mg/L
MR-AP-MW-20H	3/6/2019 12:12	Depth to Water Detail	123.05	ft
MR-AP-MW-20H	3/6/2019 12:12	Oxidation Reduction Potention	-70.6	mv
MR-AP-MW-20H	3/6/2019 12:12	pH	7.13	pH
MR-AP-MW-20H	3/6/2019 12:12	Temperature	15.58	C
MR-AP-MW-20H	3/6/2019 12:12	Turbidity	11	NTU
MR-AP-MW-20H	3/6/2019 12:17	Conductivity	1584.9	uS/cm
MR-AP-MW-20H	3/6/2019 12:17	DO	6.36	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20H	3/6/2019 12:17	Depth to Water Detail	123.02	ft
MR-AP-MW-20H	3/6/2019 12:17	Oxidation Reduction Potention	-71.6	mv
MR-AP-MW-20H	3/6/2019 12:17	pH	7.13	pH
MR-AP-MW-20H	3/6/2019 12:17	Temperature	15.59	C
MR-AP-MW-20H	3/6/2019 12:17	Turbidity	10.16	NTU
MR-AP-MW-20H	3/6/2019 12:22	Conductivity	1585.9	uS/cm
MR-AP-MW-20H	3/6/2019 12:22	DO	6.35	mg/L
MR-AP-MW-20H	3/6/2019 12:22	Depth to Water Detail	123.1	ft
MR-AP-MW-20H	3/6/2019 12:22	Oxidation Reduction Potention	-71.7	mv
MR-AP-MW-20H	3/6/2019 12:22	pH	7.13	pH
MR-AP-MW-20H	3/6/2019 12:22	Temperature	15.62	C
MR-AP-MW-20H	3/6/2019 12:22	Turbidity	9.89	NTU
MR-AP-MW-20H	3/6/2019 12:27	Conductivity	1583.9	uS/cm
MR-AP-MW-20H	3/6/2019 12:27	DO	6.31	mg/L
MR-AP-MW-20H	3/6/2019 12:27	Depth to Water Detail	123.12	ft
MR-AP-MW-20H	3/6/2019 12:27	Oxidation Reduction Potention	-72.2	mv
MR-AP-MW-20H	3/6/2019 12:27	pH	7.14	pH
MR-AP-MW-20H	3/6/2019 12:27	Temperature	15.62	C
MR-AP-MW-20H	3/6/2019 12:27	Turbidity	8.73	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-21	3/6/2019 8:51	Conductivity	698.8	uS/cm
MR-AP-MW-21	3/6/2019 8:51	DO	0.14	mg/L
MR-AP-MW-21	3/6/2019 8:51	Depth to Water Detail	19.65	ft
MR-AP-MW-21	3/6/2019 8:51	Oxidation Reduction Potention	-121.7	mv
MR-AP-MW-21	3/6/2019 8:51	pH	7.22	pH
MR-AP-MW-21	3/6/2019 8:51	Temperature	15.39	C
MR-AP-MW-21	3/6/2019 8:51	Turbidity	18.1	NTU
MR-AP-MW-21	3/6/2019 8:56	Conductivity	667.3	uS/cm
MR-AP-MW-21	3/6/2019 8:56	DO	0.12	mg/L
MR-AP-MW-21	3/6/2019 8:56	Depth to Water Detail	19.65	ft
MR-AP-MW-21	3/6/2019 8:56	Oxidation Reduction Potention	-123.8	mv
MR-AP-MW-21	3/6/2019 8:56	pH	7.24	pH
MR-AP-MW-21	3/6/2019 8:56	Temperature	15.3	C
MR-AP-MW-21	3/6/2019 8:56	Turbidity	14.4	NTU
MR-AP-MW-21	3/6/2019 9:06	Conductivity	636.2	uS/cm
MR-AP-MW-21	3/6/2019 9:06	DO	0.1	mg/L
MR-AP-MW-21	3/6/2019 9:06	Depth to Water Detail	19.67	ft
MR-AP-MW-21	3/6/2019 9:06	Oxidation Reduction Potention	-124.9	mv
MR-AP-MW-21	3/6/2019 9:06	pH	7.26	pH
MR-AP-MW-21	3/6/2019 9:06	Temperature	15.39	C
MR-AP-MW-21	3/6/2019 9:06	Turbidity	7.65	NTU
MR-AP-MW-21	3/6/2019 9:11	Conductivity	625	uS/cm
MR-AP-MW-21	3/6/2019 9:11	DO	0.1	mg/L
MR-AP-MW-21	3/6/2019 9:11	Depth to Water Detail	19.68	ft
MR-AP-MW-21	3/6/2019 9:11	Oxidation Reduction Potention	-124.3	mv
MR-AP-MW-21	3/6/2019 9:11	pH	7.26	pH
MR-AP-MW-21	3/6/2019 9:11	Temperature	15.35	C
MR-AP-MW-21	3/6/2019 9:11	Turbidity	6.57	NTU
MR-AP-MW-21	3/6/2019 9:16	Conductivity	622.9	uS/cm
MR-AP-MW-21	3/6/2019 9:16	DO	0.1	mg/L
MR-AP-MW-21	3/6/2019 9:16	Depth to Water Detail	19.68	ft
MR-AP-MW-21	3/6/2019 9:16	Oxidation Reduction Potention	-124.1	mv
MR-AP-MW-21	3/6/2019 9:16	pH	7.26	pH
MR-AP-MW-21	3/6/2019 9:16	Temperature	15.46	C
MR-AP-MW-21	3/6/2019 9:16	Turbidity	6.19	NTU

1st
Semi-Annual
Monitoring Event



Miller Ash Pond

2019 Compliance Event 1

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

Recent drilling and installation of delineation wells next to MW-3S and MW-3D resulted in elevated turbidity levels and longer pump times. Turbidity readings eventually fell below 10 NTU and samples were collected.

Suspected iron bacteria was initially present when pumping wells MW-15, MW-7S & MW-13D.

Heavy truck traffic resulted in very dusty conditions while sampling and filling bottles at well MW-14.

The first 3 field pH readings for well MW-1 were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Field quality control procedures were performed as follows:

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

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6247 or 6171
FAX (205) 664-6108

Analytical Report



Sample Group : WMWMILAP_1217
Project/Site : Miller Ash Pond
Quinton, AL 35130
For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243
Attention : Dustin Brooks & Greg Dyer
Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

Quality Control:

Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lbmidkif@southernco.com, c=US
Date: 2019.06.11 13:40:42 -05'00'

Supervision: T. Durant
Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2019.06.12 08:41:50 -05'00'



Metals ICP

Miller Ash Pond

WMWMILAP_1217

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>
AZ10480	645136	WMWMILAP_1217
AZ10481	645136	WMWMILAP_1217
AZ10482	645136	WMWMILAP_1217
AZ10483	645136	WMWMILAP_1217
AZ10484	645136	WMWMILAP_1217
AZ10485	645136	WMWMILAP_1217
AZ10486	645136	WMWMILAP_1217
AZ10487	645136	WMWMILAP_1217
AZ10488	645136	WMWMILAP_1217
AZ10489	645136	WMWMILAP_1217
AZ10490	645137	WMWMILAP_1217
AZ10491	645137	WMWMILAP_1217
AZ10492	645137	WMWMILAP_1217
AZ10493	645137	WMWMILAP_1217
AZ10494	645137	WMWMILAP_1217
AZ10495	645137	WMWMILAP_1217
AZ10496	645137	WMWMILAP_1217
AZ10497	645137	WMWMILAP_1217
AZ10498	645137	WMWMILAP_1217
AZ10499	645137	WMWMILAP_1217
AZ10986	645489	WMWMILAP_1217
AZ10987	645489	WMWMILAP_1217
AZ10988	645489	WMWMILAP_1217
AZ10989	645489	WMWMILAP_1217
AZ10990	645489	WMWMILAP_1217
AZ10991	645489	WMWMILAP_1217
AZ10992	645489	WMWMILAP_1217
AZ10993	645489	WMWMILAP_1217



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.
 - AZ10489 Calcium MS/MSD spike levels were less than 30% of the sample nominal concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.



7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ10481	Calcium	x10.15
AZ10482	Calcium	x10.15
AZ10484	Calcium	x10.15
AZ10489	Calcium	x10.15
AZ10490	Calcium	x10.15
AZ10491	Calcium	x10.15
AZ10493	Calcium	x10.15
AZ10494	Calcium	x10.15
AZ10498	Calcium	x10.15
AZ10986	Calcium	x10.15
AZ10988	Calcium	x10.15
AZ10989	Calcium	x10.15
AZ10991	Calcium	x10.15
AZ10992	Calcium	x10.15

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



Metals ICPMS

Miller Ash Pond

WMWMILAP_1217

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>
AZ10480	645728	WMWMILAP_1217
AZ10481	645728	WMWMILAP_1217
AZ10482	645728	WMWMILAP_1217
AZ10483	645728	WMWMILAP_1217
AZ10484	645728	WMWMILAP_1217
AZ10485	645728	WMWMILAP_1217
AZ10486	645728	WMWMILAP_1217
AZ10487	645728	WMWMILAP_1217
AZ10488	645728	WMWMILAP_1217
AZ10489	645728	WMWMILAP_1217
AZ10490	645729	WMWMILAP_1217
AZ10491	645729	WMWMILAP_1217
AZ10492	645729	WMWMILAP_1217
AZ10493	645729	WMWMILAP_1217
AZ10494	645729	WMWMILAP_1217
AZ10495	645729	WMWMILAP_1217
AZ10496	645729	WMWMILAP_1217
AZ10497	645729	WMWMILAP_1217
AZ10498	645729	WMWMILAP_1217
AZ10499	645729	WMWMILAP_1217
AZ10986	645741	WMWMILAP_1217
AZ10987	645741	WMWMILAP_1217
AZ10988	645741	WMWMILAP_1217
AZ10989	645741	WMWMILAP_1217
AZ10990	645741	WMWMILAP_1217
AZ10991	645741	WMWMILAP_1217
AZ10992	645741	WMWMILAP_1217
AZ10993	645741	WMWMILAP_1217



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 x5.075 dilution to compensate for potential matrix effects.
8. The raw data results are shown with dilution factors included.



Mercury

Miller Ash Pond

WMWMILAP_1217

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>
AZ10480	645439	WMWMILAP_1217
AZ10481	645439	WMWMILAP_1217
AZ10482	645439	WMWMILAP_1217
AZ10483	645439	WMWMILAP_1217
AZ10484	645439	WMWMILAP_1217
AZ10485	645439	WMWMILAP_1217
AZ10486	645439	WMWMILAP_1217
AZ10487	645439	WMWMILAP_1217
AZ10488	645439	WMWMILAP_1217
AZ10489	645439	WMWMILAP_1217
AZ10490	645440	WMWMILAP_1217
AZ10491	645440	WMWMILAP_1217
AZ10492	645440	WMWMILAP_1217
AZ10493	645440	WMWMILAP_1217
AZ10494	645440	WMWMILAP_1217
AZ10495	645440	WMWMILAP_1217
AZ10496	645440	WMWMILAP_1217
AZ10497	645440	WMWMILAP_1217
AZ10498	645440	WMWMILAP_1217
AZ10499	645440	WMWMILAP_1217
AZ10986	646206	WMWMILAP_1217
AZ10987	646206	WMWMILAP_1217
AZ10988	646206	WMWMILAP_1217
AZ10989	646206	WMWMILAP_1217
AZ10990	646206	WMWMILAP_1217
AZ10991	646206	WMWMILAP_1217
AZ10992	646206	WMWMILAP_1217
AZ10993	646206	WMWMILAP_1217



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_1217

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>
AZ10480	645543	WMWMILAP_1217
AZ10481	645543	WMWMILAP_1217
AZ10482	645543	WMWMILAP_1217
AZ10483	645543	WMWMILAP_1217
AZ10484	645543	WMWMILAP_1217
AZ10485	645543	WMWMILAP_1217
AZ10486	645543	WMWMILAP_1217
AZ10487	645543	WMWMILAP_1217
AZ10488	645543	WMWMILAP_1217
AZ10489	645543	WMWMILAP_1217
AZ10490	645446	WMWMILAP_1217
AZ10491	645446	WMWMILAP_1217
AZ10492	645446	WMWMILAP_1217
AZ10493	645446	WMWMILAP_1217
AZ10494	645446	WMWMILAP_1217
AZ10495	645446	WMWMILAP_1217
AZ10496	645446	WMWMILAP_1217
AZ10497	645446	WMWMILAP_1217
AZ10498	645446	WMWMILAP_1217
AZ10499	645446	WMWMILAP_1217
AZ10986	646102	WMWMILAP_1217
AZ10987	646102	WMWMILAP_1217
AZ10988	646102	WMWMILAP_1217
AZ10989	646102	WMWMILAP_1217
AZ10990	646102	WMWMILAP_1217
AZ10991	646270	WMWMILAP_1217
AZ10992	646270	WMWMILAP_1217
AZ10993	646270	WMWMILAP_1217



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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%. Sample used for duplicate in batch #646270 was not part of the project listed above.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - AZ10492
 - AZ10499
 - AZ10987
 - AZ10993



Anions

Miller Ash Pond

WMWMILAP_1217

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>
AZ10480	645074, 645027, & 645023	WMWMILAP_1217
AZ10481	645074, 645027, & 645023	WMWMILAP_1217
AZ10482	645074, 645027, & 645023	WMWMILAP_1217
AZ10483	645074, 645027, & 645023	WMWMILAP_1217
AZ10484	645074, 645027, & 645023	WMWMILAP_1217
AZ10485	645074, 645027, & 645023	WMWMILAP_1217
AZ10486	645074, 645027, & 645023	WMWMILAP_1217
AZ10487	645074, 645027, & 645023	WMWMILAP_1217
AZ10488	645074, 645027, & 645023	WMWMILAP_1217
AZ10489	645074, 645027, & 645023	WMWMILAP_1217
AZ10490	645075, 645028, & 645024	WMWMILAP_1217
AZ10491	645075, 645028, & 645024	WMWMILAP_1217
AZ10492	645075, 645028, & 645024	WMWMILAP_1217
AZ10493	645075, 645028, & 645024	WMWMILAP_1217
AZ10494	645075, 645028, & 645024	WMWMILAP_1217
AZ10495	645075, 645028, & 645024	WMWMILAP_1217
AZ10496	645075, 645028, & 645024	WMWMILAP_1217
AZ10497	645075, 645028, & 645024	WMWMILAP_1217
AZ10498	645075, 645028, & 645024	WMWMILAP_1217
AZ10499	645075, 645028, & 645024	WMWMILAP_1217
AZ10986	646293, 646203, & 646396	WMWMILAP_1217
AZ10987	646293, 646203, & 646396	WMWMILAP_1217
AZ10988	646293, 646203, & 646396	WMWMILAP_1217
AZ10989	646293, 646203, & 646396	WMWMILAP_1217
AZ10990	646293, 646203, & 646396	WMWMILAP_1217
AZ10991	646293, 646203, & 646396	WMWMILAP_1217
AZ10992	646293, 646203, & 646396	WMWMILAP_1217
AZ10993	646293, 646203, & 646396	WMWMILAP_1217



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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below 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.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.



7. The following samples were diluted due to the analyzed sample concentration being greater than high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ10480	Sulfate	x10
AZ10480	Chloride	x16
AZ10481	Sulfate	x16
AZ10482	Sulfate	x16
AZ10483	Sulfate	x4
AZ10484	Sulfate	x25
AZ10485	Sulfate	x4
AZ10486	Sulfate	x4
AZ10487	Sulfate	x2
AZ10488	Chloride	x2
AZ10489	Sulfate	x25
AZ10489	Chloride	x5
AZ10490	Sulfate	x32
AZ10490	Chloride	x3
AZ10491	Sulfate	x32
AZ10491	Chloride	x3
AZ10493	Sulfate	x16
AZ10493	Chloride	x3
AZ10494	Sulfate	x10
AZ10494	Chloride	x3
AZ10495	Sulfate	x25
AZ10496	Sulfate	x25
AZ10497	Sulfate	x25
AZ10498	Sulfate	x25
AZ10986	Sulfate	x16
AZ10986	Chloride	x4
AZ10988	Sulfate	x20
AZ10988	Chloride	x5
AZ10989	Sulfate	x20
AZ10989	Chloride	x5
AZ10990	Sulfate	x10
AZ10991	Sulfate	x50
AZ10992	Sulfate	x16

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

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 22-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AZ10480

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J 0.00275	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.447	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	J 0.183	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	16.8	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J 0.00126	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J 0.000318	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.243	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0680	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		83.3	930	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		16	8.00	16	242	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.335	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		10	5.00	10	249	mg/L
Field Measurements									
pH	SNP	4/22/2019						FA 9.17	SU

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 conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 22-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AZ10480

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 22-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AZ10480

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AZ10481

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0252	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	2.41	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	139	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J 0.00107	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	J 0.0295	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0148	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		50	646	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		1	0.50	1	11.9	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.225	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		16	8.00	16	385	mg/L
Field Measurements									
pH	SNP	4/24/2019						FA 6.01	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AZ10481

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AZ10481

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-16 DUP

Laboratory ID Number: AZ10482

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0243	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		2.41	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075		127	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00101	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	J	0.0294	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0142	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		50		618	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1				04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		1	0.50	1		12.0	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.236	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		16	8.00	16		406	mg/L
Field Measurements										
pH	SNP	4/24/2019							FA 6.01	SU

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-16 DUP

Laboratory ID Number: AZ10482

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-16 DUP

Laboratory ID Number: AZ10482

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AZ10483

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0765	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.243	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015		39.0	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000316	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		50		234	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1				04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1		18.3	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.133	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		4	2.00	4		91.9	mg/L
Field Measurements										
pH	SNP	4/24/2019							FA 6.46	SU

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AZ10483

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AZ10483

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AZ10484

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00193	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0154	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		3.61	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075		201	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.186	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.121	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		83.3		1460	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1				04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1		7.66	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.433	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		25	12.50	25		950	mg/L
Field Measurements										
pH	SNP	4/24/2019							FA 6.91	SU

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AZ10484

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AZ10484

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AZ10485

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00362	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0217	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	J	0.137	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015		16.0	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005		0.0237	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.0788	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		25		306	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1				04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		1	0.50	1		9.40	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.161	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		4	2.00	4		131	mg/L
Field Measurements										
pH	SNP	4/24/2019							FA 5.65	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AZ10485

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AZ10485

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AZ10486

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J 0.00439	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0726	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	J 0.0987	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	46.0	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	J 0.0404	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		25	323	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1	14.7	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.199	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		4	2.00	4	92.4	mg/L
Field Measurements									
pH	SNP	4/24/2019						FA 6.67	SU

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AZ10486

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AZ10486

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AZ10487

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0723	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	J 0.121	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	33.6	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	U Not Detected	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		25	218	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		1	0.50	1	7.29	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.220	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		2	1.00	2	47.2	mg/L
Field Measurements									
pH	SNP	4/24/2019						FA 6.44	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AZ10487

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AZ10487

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

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 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AZ10488

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.176	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.372	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015		11.9	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000900	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000311	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.134	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		50		478	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1				04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		2	1.00	2		24.9	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		1.33	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		1	0.50	1		8.17	mg/L
Field Measurements										
pH	AWG	4/23/2019							FA 8.18	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 744 County Road 87, GSC#8
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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AZ10488

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AZ10488

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AZ10489

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0256	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.862	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	167	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	0.0471	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.0822	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	J 0.00479	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		50	882	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		5	2.50	5	33.0	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.167	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		25	12.50	25	638	mg/L
Field Measurements									
pH	AWG	4/23/2019						FA 6.06	SU

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Matrix spike for Calcium is invalid due to sample concentration. LBM 5/20/19

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AZ10489

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10489	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.0995	0.101	0.104	0.085 to 0.115	99.5	70 to 130	1.51	20
AZ10489	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.126	0.126	0.100	0.085 to 0.115	101	70 to 130	0.172	20
AZ10489	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0915	0.0935	0.0920	0.085 to 0.115	91.5	70 to 130	2.09	20
AZ10489	Boron, Total	mg/L	0.000767	0.065025	1.00	1.82	1.83	0.960	0.85 to 1.15	95.7	70 to 130	0.440	20
AZ10489	Calcium, Total	mg/L	0.0148	0.216749	5.00	170	177	5.07	4.25 to 5.75	56.1	70 to 130	3.95	20
AZ10489	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.100	0.0977	0.100	0.085 to 0.115	100	70 to 130	2.72	20
AZ10489	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.146	0.148	0.105	0.085 to 0.115	99.1	70 to 130	1.32	20
AZ10489	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0958	0.0945	0.0982	0.085 to 0.115	95.8	70 to 130	1.37	20
AZ10489	Mercury, Total by CVAA	mg/L	0.000192	0.0005	0.004	0.00408	0.00400	0.00428	0.0034 to 0.0046	102	70 to 130	1.91	20
AZ10489	Lithium, Total	mg/L	-0.000232	0.019704	0.20	0.304	0.306	0.200	0.17 to 0.23	111	70 to 130	0.600	20
AZ10489	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.101	0.101	0.0941	0.085 to 0.115	96.5	70 to 130	0.289	20
AZ10489	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.102	0.102	0.105	0.085 to 0.115	102	70 to 130	0.138	20
AZ10489	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.103	0.102	0.0954	0.085 to 0.115	103	70 to 130	0.677	20
AZ10489	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0930	0.0930	0.105	0.085 to 0.115	93.0	70 to 130	0.0519	20
AZ10489	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	1.04	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2019

Comments: Matrix spike for Calcium is invalid due to sample concentration. LBM 5/20/19

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AZ10489

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AZ10488	Solids, Dissolved	mg/L	6.00	25			492	51.0	40 to 60			1.44	5
AZ10489	Chloride	mg/L	0.0849	0.50	50.0	84.2	32.8	9.84	9 to 11	102	80 to 120	0.608	20
AZ10489	Fluoride	mg/L	0.012	0.05	2.50	2.64	0.151	2.55	2.25 to 2.75	98.9	80 to 120	10.1	20
AZ10489	Sulfate	mg/L	-0.457	0.50	500	1110	550	19.7	18 to 22	94.4	80 to 120	14.8	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: Matrix spike for Calcium is invalid due to sample concentration. LBM 5/20/19

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AZ10490

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	0.0122	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0163	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.849	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	330	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J 0.000319	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.229	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0731	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		83.3	1390	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1			4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		3	1.50	3	43.3	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.407	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		32	16.00	32	884	mg/L
Field Measurements									
pH	AWG	4/23/2019						FA 7.03	SU

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AZ10490

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	70 to 130	1.28	20

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Comments:

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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AZ10490

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS	Rec			Prec	
							Duplicate	LCS	Limit	Rec	Limit	Prec	Limit	
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60				0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00		20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00		20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	80 to 120	0.00		20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-5 DUP

Laboratory ID Number: AZ10491

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	0.0117	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0159	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.846	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	329	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J 0.000400	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.228	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0722	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		83.3	1370	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1			4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		3	1.50	3	43.8	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.428	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		32	16.00	32	898	mg/L
Field Measurements									
pH	AWG	4/23/2019						FA 7.03	SU

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Comments:

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-5 DUP

Laboratory ID Number: AZ10491

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	70 to 130	1.28	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-5 DUP

Laboratory ID Number: AZ10491

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	80 to 120	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMLAPFB
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10492

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	U	Not Detected	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	U	Not Detected	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000331	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		1	0.50	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10492

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10492

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AZ10493

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00189	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0326	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.756	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075		140	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000318	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.0996	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	J	0.00612	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		50		748	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		3	1.50	3		28.0	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.156	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		16	8.00	16		364	mg/L
Field Measurements										
pH	AWG	4/24/2019							FA 6.63	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AZ10493

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AZ10493

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AZ10494

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00245	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0402	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.730	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075		103	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.148	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0325	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		50		574	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		3	1.50	3		22.9	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.296	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		10	5.00	10		239	mg/L
Field Measurements										
pH	AWG	4/24/2019							FA 6.43	SU

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AZ10494

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit
				Limit	Spike					Limit	Prec		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	70 to 130	1.28	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AZ10494

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit	
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60				0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00		20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00		20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AZ10495

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00146	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0295	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.893	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015		54.1	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005		0.00723	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000303	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.0568	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	J	0.00699	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		50		724	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1		11.2	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.258	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		25	12.50	25		461	mg/L
Field Measurements										
pH	AWG	4/24/2019							FA 5.91	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AZ10495

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AZ10495

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AZ10496

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0202	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		1.53	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015		53.6	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000999	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000334	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	J	0.0268	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0298	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		50		596	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1		4.06	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.531	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		25	12.50	25		315	mg/L
Field Measurements										
pH	AWG	4/24/2019							FA 6.62	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AZ10496

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AZ10496

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit	
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60				0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00		20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00		20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AZ10497

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J 0.00194	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0128	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.758	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	66.0	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	0.0207	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J 0.000331	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.0724	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		50	802	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1			4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		1	0.50	1	11.2	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.205	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		25	12.50	25	486	mg/L
Field Measurements									
pH	AWG	4/24/2019						FA 5.62	SU

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AZ10497

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AZ10497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec Rec	Rec Limit	Prec	Prec Limit
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	80 to 120	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AZ10498

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0458	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.757	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075		325	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	J	0.000319	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000345	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.142	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		50		838	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500CI E		1	0.50	1		5.42	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1		0.277	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		25	12.50	25		513	mg/L
Field Measurements										
pH	AWG	4/24/2019							FA 5.82	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AZ10498

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AZ10498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10499

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	U	Not Detected	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	U	Not Detected	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/3/2019	EPA 245.1		1	0.0003	0.0005	J	0.000329	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	5/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	4/26/2019	SM 2540C		1				4/26/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/26/2019	SM4500SO4 E		1	0.50	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10499

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ10499	Arsenic, Total	mg/L	-0.00000429	0.0022	0.10	0.100	0.102	0.104	0.085 to 0.115	100	70 to 130	1.66	20
AZ10499	Barium, Total	mg/L	-0.0000925	0.0044	0.10	0.104	0.104	0.100	0.085 to 0.115	104	70 to 130	0.0278	20
AZ10499	Beryllium, Total	mg/L	0.00000391	0.00132	0.10	0.0920	0.0892	0.0920	0.085 to 0.115	92.0	70 to 130	3.13	20
AZ10499	Boron, Total	mg/L	-0.00127	0.065025	1.00	0.987	0.985	0.969	0.85 to 1.15	98.7	70 to 130	0.233	20
AZ10499	Calcium, Total	mg/L	0.00216	0.216749	5.00	5.23	5.19	5.06	4.25 to 5.75	105	70 to 130	0.711	20
AZ10499	Cadmium, Total	mg/L	0.00000077	0.00066	0.10	0.103	0.105	0.100	0.085 to 0.115	103	70 to 130	1.88	20
AZ10499	Cobalt, Total	mg/L	-0.00000151	0.0044	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.47	20
AZ10499	Chromium, Total	mg/L	-0.0000600	0.0044	0.10	0.0968	0.0978	0.0982	0.085 to 0.115	96.8	70 to 130	1.09	20
AZ10499	Mercury, Total by CVAA	mg/L	0.000292	0.0005	0.004	0.00462	0.00431	0.00418	0.0034 to 0.0046	107	70 to 130	6.90	20
AZ10499	Lithium, Total	mg/L	-0.0000288	0.019704	0.20	0.197	0.195	0.192	0.17 to 0.23	98.4	70 to 130	0.794	20
AZ10499	Molybdenum, Total	mg/L	0.0000102	0.0044	0.10	0.0961	0.0957	0.0941	0.085 to 0.115	96.1	70 to 130	0.430	20
AZ10499	Lead, Total	mg/L	0.00000434	0.0022	0.10	0.104	0.105	0.105	0.085 to 0.115	104	70 to 130	1.57	20
AZ10499	Antimony, Total	mg/L	0.000186	0.00176	0.10	0.102	0.103	0.0954	0.085 to 0.115	102	70 to 130	1.50	20
AZ10499	Selenium, Total	mg/L	-0.000647	0.0044	0.10	0.0949	0.0949	0.105	0.085 to 0.115	94.9	70 to 130	0.0748	20
AZ10499	Thallium, Total	mg/L	-0.00000015	0.00044	0.10	0.103	0.105	0.105	0.085 to 0.115	103	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 24-Apr-19
 Customer ID:
 Delivery Date: 25-Apr-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10498	Solids, Dissolved	mg/L	1.00	25			840	46.0	40 to 60			0.119	5
AZ10499	Chloride	mg/L	0.0266	0.50	10.0	10.1	0.181	9.89	9 to 11	101	80 to 120	0.00	20
AZ10499	Fluoride	mg/L	0.0236	0.05	2.50	2.47	0.0217	2.26	2.25 to 2.75	98.8	80 to 120	0.00	20
AZ10499	Sulfate	mg/L	-0.476	0.50	20.0	19.3	-0.328	19.8	18 to 22	96.5	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AZ10986

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	0.0108	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0404	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.407	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	186	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J 0.00118	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	0.00555	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.104	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0265	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	5/10/2019	SM 2540C		1		50	956	mg/L
Filter Completion Date	CES	5/3/2019	SM 2540C		1			05/03/2019	Date
* Chloride	JCC	5/14/2019	SM4500CI E		4	2.00	4	40.7	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1	0.343	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		16	8.00	16	484	mg/L
Field Measurements									
pH	SNP	4/29/2019						FA 6.81	SU

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AZ10986

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AZ10986

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec			Prec Limit
							Duplicate	LCS		Rec	Limit	Prec	
AZ10990	Solids, Dissolved	mg/L	0.0000	25			698	49.0	40 to 60			0.287	5
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10987

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	U	Not Detected	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	U	Not Detected	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000903	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	5/10/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	5/3/2019	SM 2540C		1				05/03/2019	Date
* Chloride	JCC	5/14/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

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Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10987

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPFB
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ10987

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10990	Solids, Dissolved	mg/L	0.0000	25			698	49.0	40 to 60			0.287	5
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	97.0	80 to 120	0.00	20

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Expiration: June 30, 2019

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CC:

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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AZ10988

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0146	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.444	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	271	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	0.0206	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.0729	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	5/10/2019	SM 2540C		1		50	1180	mg/L
Filter Completion Date	CES	5/3/2019	SM 2540C		1			05/03/2019	Date
* Chloride	JCC	5/14/2019	SM4500CI E		5	2.50	5	42.4	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1	0.226	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		20	10.00	20	758	mg/L
Field Measurements									
pH	SNP	4/29/2019						FA 5.91	SU

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Laboratory certification ID: E571114

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Comments:

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 Calera, AL 35040
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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMLAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AZ10988

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AZ10988

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10990	Solids, Dissolved	mg/L	0.0000	25			698	49.0	40 to 60			0.287	5
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	97.0	80 to 120	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AZ10989

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0148	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	0.450	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	259	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	0.0201	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.0738	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	5/10/2019	SM 2540C		1		50	1150	mg/L
Filter Completion Date	CES	5/3/2019	SM 2540C		1			05/03/2019	Date
* Chloride	JCC	5/14/2019	SM4500CI E		5	2.50	5	40.8	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1	0.228	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		20	10.00	20	770	mg/L
Field Measurements									
pH	SNP	4/29/2019						FA 5.91	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMLAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AZ10989

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 29-Apr-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-4 Dup

Laboratory ID Number: AZ10989

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10990	Solids, Dissolved	mg/L	0.0000	25			698	49.0	40 to 60			0.287	5
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AZ10990

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00229	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0672	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	U	Not Detected	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015		47.9	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.104	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	J	0.00932	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	5/10/2019	SM 2540C		1		50		694	mg/L
Filter Completion Date	CES	5/3/2019	SM 2540C		1				05/03/2019	Date
* Chloride	JCC	5/14/2019	SM4500Cl E		1	0.50	1		15.0	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1		0.143	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		10	5.00	10		309	mg/L
Field Measurements										
pH	SNP	5/1/2019							FA 11.01	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AZ10990

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AZ10990

Sample	Analysis	Units	MB	MB	Limit	Spike	MS	Sample	LCS	LCS	Limit	Rec	Prec	Prec	Limit
								Duplicate	LCS			Rec	Limit	Prec	Limit
AZ10990	Solids, Dissolved	mg/L	0.0000	25				698	49.0	40 to 60				0.287	5
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7		0.0704	10.3	9 to 11	107	80 to 120	0.00		20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50		0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00		20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4		-0.502	19.8	18 to 22	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AZ10991

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	J	0.00390	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01		0.0164	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203		0.240	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075		272	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005		0.0642	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406		0.228	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	5/14/2019	SM 2540C		1		125		2370	mg/L
Filter Completion Date	CES	5/8/2019	SM 2540C		1				05/08	Date
* Chloride	JCC	5/14/2019	SM4500CI E		1	0.50	1		5.04	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1		0.108	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		50	25.00	50		1580	mg/L
Field Measurements										
pH	SNP	5/1/2019							FA 6.25	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AZ10991

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AZ10991

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	97.0	80 to 120	0.00	20
AZ11235	Solids, Dissolved	mg/L	-1.00	25			253	51.0	40 to 60			0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AZ10992

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	0.0400	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	U Not Detected	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		10.15	1.015	5.075	136	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	0.327	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CES	5/14/2019	SM 2540C		1		50	996	mg/L
Filter Completion Date	CES	5/8/2019	SM 2540C		1			05/08/2019	Date
* Chloride	JCC	5/14/2019	SM4500CI E		1	0.50	1	6.46	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1	0.118	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		16	8.00	16	549	mg/L
Field Measurements									
pH	SNP	5/1/2019						FA 6.64	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMLAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AZ10992

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAP
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AZ10992

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	97.0	80 to 120	0.00	20
AZ11235	Solids, Dissolved	mg/L	-1.00	25			253	51.0	40 to 60			0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ10993

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0609	0.203	U	Not Detected	mg/L
* Calcium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.203	1.015	U	Not Detected	mg/L
* Cadmium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	GAS	5/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	5/6/2019	EPA 200.7		2.03	0.0203	0.0406	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	5/3/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	5/14/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	5/8/2019	SM 2540C		1				05/08/2019	Date
* Chloride	JCC	5/14/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	5/13/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	5/15/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

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Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ10993

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10993	Arsenic, Total	mg/L	0.00000198	0.0022	0.10	0.101	0.0959	0.100	0.085 to 0.115	101	70 to 130	4.86	20
AZ10993	Barium, Total	mg/L	-0.0000944	0.0044	0.10	0.100	0.0980	0.101	0.085 to 0.115	100	70 to 130	2.17	20
AZ10993	Beryllium, Total	mg/L	0.00000351	0.00132	0.10	0.0898	0.0917	0.0966	0.085 to 0.115	89.8	70 to 130	2.03	20
AZ10993	Boron, Total	mg/L	0.000372	0.065025	1.00	0.937	0.936	0.939	0.85 to 1.15	93.7	70 to 130	0.0958	20
AZ10993	Calcium, Total	mg/L	-0.000648	0.216749	5.00	4.96	4.94	4.97	4.25 to 5.75	99.2	70 to 130	0.421	20
AZ10993	Cadmium, Total	mg/L	-0.00000105	0.00066	0.10	0.0998	0.0982	0.0998	0.085 to 0.115	99.8	70 to 130	1.59	20
AZ10993	Cobalt, Total	mg/L	-0.00000138	0.0044	0.10	0.104	0.101	0.102	0.085 to 0.115	104	70 to 130	2.91	20
AZ10993	Chromium, Total	mg/L	-0.0000854	0.0044	0.10	0.0982	0.0931	0.0973	0.085 to 0.115	98.2	70 to 130	5.34	20
AZ10993	Mercury, Total by CVAA	mg/L	0.0000568	0.0005	0.004	0.00455	0.00458	0.00433	0.0034 to 0.0046	114	70 to 130	0.657	20
AZ10993	Lithium, Total	mg/L	-0.000286	0.019704	0.20	0.196	0.194	0.197	0.17 to 0.23	98.2	70 to 130	1.33	20
AZ10993	Molybdenum, Total	mg/L	0.0000123	0.0044	0.10	0.0978	0.0973	0.0949	0.085 to 0.115	97.8	70 to 130	0.533	20
AZ10993	Lead, Total	mg/L	0.00000058	0.0022	0.10	0.103	0.101	0.103	0.085 to 0.115	103	70 to 130	2.28	20
AZ10993	Antimony, Total	mg/L	0.000170	0.00176	0.10	0.0977	0.0976	0.0972	0.085 to 0.115	97.7	70 to 130	0.0950	20
AZ10993	Selenium, Total	mg/L	-0.000719	0.0044	0.10	0.0944	0.0943	0.0995	0.085 to 0.115	94.4	70 to 130	0.0472	20
AZ10993	Thallium, Total	mg/L	0.00000060	0.00044	0.10	0.103	0.101	0.105	0.085 to 0.115	103	70 to 130	1.92	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWMILAPEB
 Sample Date: 01-May-19
 Customer ID:
 Delivery Date: 02-May-19

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ10993

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ10993	Chloride	mg/L	0.066	0.50	10.0	10.7	0.0704	10.3	9 to 11	107	80 to 120	0.00	20
AZ10993	Fluoride	mg/L	0.0277	0.05	2.50	2.50	0.0261	2.61	2.25 to 2.75	100	80 to 120	0.00	20
AZ10993	Sulfate	mg/L	-0.383	0.50	20.0	19.4	-0.502	19.8	18 to 22	97.0	80 to 120	0.00	20
AZ11235	Solids, Dissolved	mg/L	-1.00	25			253	51.0	40 to 60			0.00	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:



Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
BA	Analyte found in reagent blank is = RL AND is > 1/10 the amount of the sample.
C	Analyte was verified by re-analysis.
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.
E	Estimated reported value exceeded calibration range.
F	Water Field Group (WFG) qualifier; see comments for more information
FA	Field results were reviewed by the Water Field Group.
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.
J	Reported value is an estimate because concentration is less than reporting limit.
K	No MB or LCS were submitted with the sample for dissolved analysis.
L	Check standard is outside of specification limit.
LA	Analyte recovery in the check standard was above specification limit. Results may be biased high.
LL	Analyte recovery in the check standard was below specification limit. Results may be biased low.
M	LOQ verification analyzed with batch was outside of specification limit.
N	Organic constituents tentatively identified. Confirmation is needed.
P	Precision is out of specification limit.
R	Matrix spike recovery or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
S	Surrogate recovery is outside of specification limit.
T	Sample temperature is outside of specification limit.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 04/25/2019 08:00

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

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: FB-1 date corrected to 04/23/2019. LBM 04/25/2019

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	4/23/19	11:42	4	Groundwater		AZ10488
MW-6	04/23/2019	12:53	4	Groundwater		AZ10489
MW-5	04/23/2019	13:38	4	Groundwater		AZ10490
MW-5DUP	04/23/2019	13:38	4	Sample Duplicate		AZ10491
FB-1	04/23/2019	14:08	4	Field Blank		AZ10492
MW-7D	04/24/2019	09:36	4	Groundwater		AZ10493
MW-7S	04/24/2019	10:58	4	Groundwater		AZ10494
MW-8D	04/24/2019	12:05	4	Groundwater		AZ10495
MW-8S	04/24/2019	12:57	4	Groundwater		AZ10496
MW-9D	04/24/2019	13:43	4	Groundwater		AZ10497
MW-9S	04/24/2019	14:46	4	Groundwater		AZ10498
FB-2	04/24/2019	14:56	4	Field Blank		AZ10499

Relinquished By	Received By	Date/Time
		04/25/2019 08:12

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	Cooler Temp
Sample Event	1217	Thermometer ID
		pH Strip ID
		0.3 degrees C
		5408-27568-2-2
		7260-39349-1-1



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 05/02/2019 09:00

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

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-3D	4/29/19	13:17	4	Groundwater		AZ10986
FB-3	04/29/2019	12:50	4	Field Blank		AZ10987
MW-4	04/29/2019	14:25	4	Groundwater		AZ10988
MW-4 Dup	04/29/2019	14:25	4	Sample Duplicate		AZ10989
MW-1	05/01/2019	10:25	4	Groundwater		AZ10990
MW-2	05/01/2019	13:20	4	Groundwater		AZ10991
MW-11	05/01/2019	15:12	4	Groundwater		AZ10992
EB-1	05/01/2019	16:00	4	Equipment Blank		AZ10993

Relinquished By	Received By	Date/Time
		05/02/2019 08:23

SmarTroll ID	7151-38850-2-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20009-2-1	Cooler Temp
Sample Event	1217	1.0 degrees C
		Thermometer ID
		7044-38282-2-2
		pH Strip ID
		6959-37704-30-25



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 04/25/2019 08:00

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

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium Duplicate collected at MW-6 and MW-7D
 FB-1 date corrected to 04/23/2019. LBM 04/25/2019

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-5	4/23/19	11:42	1	Groundwater		AZ10508
MW-6	04/23/2019	12:53	3	Groundwater		AZ10509
MW-5	04/23/2019	13:38	1	Groundwater		AZ10510
MW-5DUP	04/23/2019	13:38	1	Sample Duplicate		AZ10511
FB-1	04/23/2019	14:08	1	Field Blank		AZ10512
MW-7D	04/24/2019	09:36	3	Groundwater		AZ10513
MW-7S	04/24/2019	10:58	1	Groundwater		AZ10514
MW-8D	04/24/2019	12:05	1	Groundwater		AZ10515
MW-8S	04/24/2019	12:57	1	Groundwater		AZ10516
MW-9D	04/24/2019	13:43	1	Groundwater		AZ10517
MW-9S	04/24/2019	14:46	1	Groundwater		AZ10518
FB-2	04/24/2019	14:56	1	Field Blank		AZ10519

Relinquished By	Received By	Date/Time
		04/25/2019 08:12

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	Cooler Temp
Sample Event	1217	Thermometer ID
		pH Strip ID
		7260-39349-1-1

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-169725-1
Laboratory Sample Delivery Group: Miller Ash Pond 1217
Client Project/Site: CCR Plant Miller

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:
8/16/2019 5:58:38 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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Job ID: 400-169725-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-169725-1

RAD

Method(s) 9315: Ra-226 Prep Batch 160-430133. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ10500 MW3S (400-169725-1), AZ10501 MW-16 (400-169725-2), AZ10502 MW-16 DUP (400-169725-3), AZ10503 MW-15 (400-169725-4), AZ10504 MW-10 (400-169725-5), AZ10505 MW-13S (400-169725-6), AZ10506 MW-13D (400-169725-7), AZ10507 MW-14 (400-169725-8), AZ10508 PZ-5 (400-169725-9), AZ10509 MW-6 (400-169725-10), AZ10509 MW-6 (400-169725-10[DUJ]), AZ10510 MW-5 (400-169725-11), (LCS 160-430133/1-A) and (MB 160-430133/23-A)

Method(s) 9315: Ra-226 Prep Batch 160-430237. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ10511 MW-5 DUP (400-169725-12), AZ10513 MW-7D (400-169725-14), AZ10513 MW-7D (400-169725-14[DUJ]), AZ10514 MW-7S (400-169725-15), AZ10515 MW-8D (400-169725-16), AZ10516 MW-8S (400-169725-17), AZ10517 MW-9D (400-169725-18), AZ10518 MW-9S (400-169725-19), AZ10519 FB-2 (400-169725-20), AZ10994 MW-3D (400-169725-21), AZ10995 FB-3 (400-169725-22), AZ10996 MW-4 (400-169725-23), AZ10997 MW-4 DUP (400-169725-24), AZ10998 MW-1 (400-169725-25), AZ10999 MW-2 (400-169725-26), AZ11000 MW-11 (400-169725-27), AZ11001 EB-1 (400-169725-28), (LCS 160-430237/1-A) and (MB 160-430237/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-430139. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ10500 MW3S (400-169725-1), AZ10501 MW-16 (400-169725-2), AZ10502 MW-16 DUP (400-169725-3), AZ10503 MW-15 (400-169725-4), AZ10504 MW-10 (400-169725-5), AZ10505 MW-13S (400-169725-6), AZ10506 MW-13D (400-169725-7), AZ10507 MW-14 (400-169725-8), AZ10508 PZ-5 (400-169725-9), AZ10509 MW-6 (400-169725-10), AZ10509 MW-6 (400-169725-10[DUJ]), AZ10510 MW-5 (400-169725-11), (LCS 160-430139/1-A) and (MB 160-430139/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-430261. The daily beta check on the day of count (7/19) of batches Laboratory Control Sample (LCS) was inadvertently missed. The check both the day of use before (7/18) and the day of use after (7/22) were within limits, demonstrating acceptable performance. In addition, the LCS exhibited acceptable spike recovery, which also demonstrates acceptable laboratory performance. The laboratory does not believe this excursion adversely affects the data. AZ10511 MW-5 DUP (400-169725-12), AZ10512 FB-1 (400-169725-13), AZ10513 MW-7D (400-169725-14), AZ10513 MW-7D (400-169725-14[DUJ]), AZ10514 MW-7S (400-169725-15), AZ10515 MW-8D (400-169725-16), AZ10516 MW-8S (400-169725-17), AZ10517 MW-9D (400-169725-18), AZ10518 MW-9S (400-169725-19), AZ10519 FB-2 (400-169725-20), AZ10994 MW-3D (400-169725-21), AZ10995 FB-3 (400-169725-22), AZ10996 MW-4 (400-169725-23), AZ10997 MW-4 DUP (400-169725-24), AZ10998 MW-1 (400-169725-25), AZ10999 MW-2 (400-169725-26), AZ11000 MW-11 (400-169725-27), AZ11001 EB-1 (400-169725-28), (LCS 160-430261/1-A) and (MB 160-430261/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-430261. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ10511 MW-5 DUP (400-169725-12), AZ10512 FB-1 (400-169725-13), AZ10513 MW-7D (400-169725-14), AZ10513 MW-7D (400-169725-14[DUJ]), AZ10514 MW-7S (400-169725-15), AZ10515 MW-8D (400-169725-16), AZ10516 MW-8S (400-169725-17), AZ10517 MW-9D (400-169725-18), AZ10518 MW-9S (400-169725-19), AZ10519 FB-2 (400-169725-20), AZ10994 MW-3D (400-169725-21), AZ10995 FB-3 (400-169725-22), AZ10996 MW-4 (400-169725-23), AZ10997 MW-4 DUP (400-169725-24), AZ10998 MW-1 (400-169725-25), AZ10999 MW-2 (400-169725-26), AZ11000 MW-11 (400-169725-27), AZ11001 EB-1 (400-169725-28), (LCS 160-430261/1-A) and (MB 160-430261/23-A)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-430261. The following samples were prepared at a reduced aliquot due to limited volume: AZ10511 MW-5 DUP (400-169725-12), AZ10512 FB-1 (400-169725-13), AZ10513 MW-7D (400-169725-14), AZ10513 MW-7D (400-169725-14[DUJ]), AZ10514 MW-7S (400-169725-15), AZ10515 MW-8D (400-169725-16), AZ10516 MW-8S (400-169725-17), AZ10517 MW-9D (400-169725-18), AZ10518 MW-9S (400-169725-19), AZ10519 FB-2 (400-169725-20), AZ10994 MW-3D (400-169725-21), AZ10995 FB-3 (400-169725-22), AZ10996 MW-4 (400-169725-23), AZ10997 MW-4 DUP (400-169725-24), AZ10998 MW-1 (400-169725-25), AZ10999 MW-2 (400-169725-26), AZ11000 MW-11 (400-169725-27) and AZ11001 EB-1 (400-169725-28). Sample 400-169725-A-26 had yellow discoloration.

Case Narrative

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Job ID: 400-169725-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-430237. The following samples were prepared at a reduced aliquot due to limited volume: AZ10511 MW-5 DUP (400-169725-12), AZ10512 FB-1 (400-169725-13), AZ10513 MW-7D (400-169725-14), AZ10513 MW-7D (400-169725-14[DU]), AZ10514 MW-7S (400-169725-15), AZ10515 MW-8D (400-169725-16), AZ10516 MW-8S (400-169725-17), AZ10517 MW-9D (400-169725-18), AZ10518 MW-9S (400-169725-19), AZ10519 FB-2 (400-169725-20), AZ10994 MW-3D (400-169725-21), AZ10995 FB-3 (400-169725-22), AZ10996 MW-4 (400-169725-23), AZ10997 MW-4 DUP (400-169725-24), AZ10998 MW-1 (400-169725-25), AZ10999 MW-2 (400-169725-26), AZ11000 MW-11 (400-169725-27) and AZ11001 EB-1 (400-169725-28). Sample 400-169725-A-26 had yellow discoloration.

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Method Summary

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-169725-1	AZ10500 MW-3S	Water	04/22/19 14:30	05/06/19 15:20	
400-169725-2	AZ10501 MW-16	Water	04/24/19 08:57	05/06/19 15:20	
400-169725-3	AZ10502 MW-16 DUP	Water	04/24/19 08:57	05/06/19 15:20	
400-169725-4	AZ10503 MW-15	Water	04/24/19 10:37	05/06/19 15:20	
400-169725-5	AZ10504 MW-10	Water	04/24/19 11:37	05/06/19 15:20	
400-169725-6	AZ10505 MW-13S	Water	04/24/19 13:05	05/06/19 15:20	
400-169725-7	AZ10506 MW-13D	Water	04/24/19 14:25	05/06/19 15:20	
400-169725-8	AZ10507 MW-14	Water	04/24/19 15:27	05/06/19 15:20	
400-169725-9	AZ10508 PZ-5	Water	04/23/19 11:42	05/06/19 15:20	
400-169725-10	AZ10509 MW-6	Water	04/23/19 12:53	05/06/19 15:20	
400-169725-11	AZ10510 MW-5	Water	04/23/19 13:38	05/06/19 15:20	
400-169725-12	AZ10511 MW-5 DUP	Water	04/23/19 13:38	05/06/19 15:20	
400-169725-13	AZ10512 FB-1	Water	04/23/19 14:08	05/06/19 15:20	
400-169725-14	AZ10513 MW-7D	Water	04/24/19 09:36	05/06/19 15:20	
400-169725-15	AZ10514 MW-7S	Water	04/24/19 10:58	05/06/19 15:20	
400-169725-16	AZ10515 MW-8D	Water	04/24/19 12:05	05/06/19 15:20	
400-169725-17	AZ10516 MW-8S	Water	04/24/19 12:57	05/06/19 15:20	
400-169725-18	AZ10517 MW-9D	Water	04/24/19 13:43	05/06/19 15:20	
400-169725-19	AZ10518 MW-9S	Water	04/24/19 14:46	05/06/19 15:20	
400-169725-20	AZ10519 FB-2	Water	04/24/19 14:56	05/06/19 15:20	
400-169725-21	AZ10994 MW-3D	Water	04/29/19 13:17	05/06/19 15:20	
400-169725-22	AZ10995 FB-3	Water	04/29/19 12:50	05/06/19 15:20	
400-169725-23	AZ10996 MW-4	Water	04/29/19 14:25	05/06/19 15:20	
400-169725-24	AZ10997 MW-4 DUP	Water	04/29/19 14:25	05/06/19 15:20	
400-169725-25	AZ10998 MW-1	Water	05/01/19 10:25	05/06/19 15:20	
400-169725-26	AZ10999 MW-2	Water	05/01/19 13:20	05/06/19 15:20	
400-169725-27	AZ11000 MW-11	Water	05/01/19 15:12	05/06/19 15:20	
400-169725-28	AZ11001 EB-1	Water	05/01/19 16:00	05/06/19 15:20	

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10500 MW-3S

Lab Sample ID: 400-169725-1

Date Collected: 04/22/19 14:30

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163		0.0852	0.0864	1.00	0.108	pCi/L	05/29/19 11:23	08/03/19 14:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					05/29/19 11:23	08/03/19 14:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.515		0.266	0.270	1.00	0.391	pCi/L	05/29/19 12:41	07/17/19 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					05/29/19 12:41	07/17/19 08:47	1
Y Carrier	85.2		40 - 110					05/29/19 12:41	07/17/19 08:47	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	0.678		0.279	0.283	5.00	0.391	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10501 MW-16

Lab Sample ID: 400-169725-2

Date Collected: 04/24/19 08:57

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0311	U	0.0507	0.0508	1.00	0.0886	pCi/L	05/29/19 11:23	08/03/19 14:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/29/19 11:23	08/03/19 14:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.286	U	0.252	0.253	1.00	0.403	pCi/L	05/29/19 12:41	07/17/19 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/29/19 12:41	07/17/19 08:47	1
Y Carrier	81.9		40 - 110					05/29/19 12:41	07/17/19 08:47	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	0.317	U	0.257	0.258	5.00	0.403	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10502 MW-16 DUP

Lab Sample ID: 400-169725-3

Date Collected: 04/24/19 08:57

Matrix: Water

Date Received: 05/06/19 15:20

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	0.0534	0.0535	1.00	0.0876	pCi/L	05/29/19 11:23	08/03/19 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					05/29/19 11:23	08/03/19 14:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.150	U	0.259	0.259	1.00	0.437	pCi/L	05/29/19 12:41	07/17/19 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					05/29/19 12:41	07/17/19 08:47	1
Y Carrier	86.0		40 - 110					05/29/19 12:41	07/17/19 08:47	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	0.194	U	0.264	0.264	5.00	0.437	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10503 MW-15

Lab Sample ID: 400-169725-4

Date Collected: 04/24/19 10:37

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.144		0.0759	0.0770	1.00	0.0970	pCi/L	05/29/19 11:23	08/03/19 14:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/29/19 11:23	08/03/19 14:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.229	U	0.219	0.220	1.00	0.353	pCi/L	05/29/19 12:41	07/17/19 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/29/19 12:41	07/17/19 08:47	1
Y Carrier	84.9		40 - 110					05/29/19 12:41	07/17/19 08:47	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	0.373		0.232	0.233	5.00	0.353	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10504 MW-10

Lab Sample ID: 400-169725-5

Date Collected: 04/24/19 11:37

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.0721	0.0734	1.00	0.0780	pCi/L	05/29/19 11:23	08/03/19 14:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					05/29/19 11:23	08/03/19 14:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.446		0.274	0.277	1.00	0.419	pCi/L	05/29/19 12:41	07/17/19 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					05/29/19 12:41	07/17/19 08:47	1
Y Carrier	82.2		40 - 110					05/29/19 12:41	07/17/19 08:47	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	0.601		0.283	0.287	5.00	0.419	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10505 MW-13S

Lab Sample ID: 400-169725-6

Date Collected: 04/24/19 13:05

Matrix: Water

Date Received: 05/06/19 15:20

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		0.0804	0.0813	1.00	0.105	pCi/L	05/29/19 11:23	08/03/19 14:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					05/29/19 11:23	08/03/19 14:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.156	U	0.229	0.229	1.00	0.384	pCi/L	05/29/19 12:41	07/17/19 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					05/29/19 12:41	07/17/19 08:56	1
Y Carrier	83.0		40 - 110					05/29/19 12:41	07/17/19 08:56	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	0.289	U	0.243	0.243	5.00	0.384	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10506 MW-13D

Lab Sample ID: 400-169725-7

Date Collected: 04/24/19 14:25

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.143		0.0753	0.0764	1.00	0.0928	pCi/L	05/29/19 11:23	08/04/19 21:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					05/29/19 11:23	08/04/19 21:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.339	U	0.232	0.234	1.00	0.355	pCi/L	05/29/19 12:41	07/17/19 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					05/29/19 12:41	07/17/19 08:56	1
Y Carrier	80.7		40 - 110					05/29/19 12:41	07/17/19 08:56	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	0.482		0.244	0.246	5.00	0.355	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10507 MW-14

Lab Sample ID: 400-169725-8

Date Collected: 04/24/19 15:27

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0212	U	0.0595	0.0595	1.00	0.125	pCi/L	05/29/19 11:23	08/04/19 21:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/29/19 11:23	08/04/19 21:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.273	U	0.252	0.253	1.00	0.406	pCi/L	05/29/19 12:41	07/17/19 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/29/19 12:41	07/17/19 08:56	1
Y Carrier	88.2		40 - 110					05/29/19 12:41	07/17/19 08:56	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	0.252	U	0.259	0.260	5.00	0.406	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10508 PZ-5

Lab Sample ID: 400-169725-9

Date Collected: 04/23/19 11:42

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0166	U	0.0602	0.0602	1.00	0.113	pCi/L	05/29/19 11:23	08/04/19 21:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/29/19 11:23	08/04/19 21:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.222	0.224	1.00	0.356	pCi/L	05/29/19 12:41	07/17/19 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/29/19 12:41	07/17/19 08:56	1
Y Carrier	91.2		40 - 110					05/29/19 12:41	07/17/19 08:56	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	0.267	U	0.230	0.232	5.00	0.356	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10509 MW-6

Lab Sample ID: 400-169725-10

Date Collected: 04/23/19 12:53

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0130	U	0.0488	0.0488	1.00	0.0938	pCi/L	05/29/19 11:23	08/04/19 21:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/29/19 11:23	08/04/19 21:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.343	U	0.228	0.230	1.00	0.350	pCi/L	05/29/19 12:41	07/17/19 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/29/19 12:41	07/17/19 08:56	1
Y Carrier	94.2		40 - 110					05/29/19 12:41	07/17/19 08:56	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	0.356		0.233	0.235	5.00	0.350	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10510 MW-5

Lab Sample ID: 400-169725-11

Date Collected: 04/23/19 13:38

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0364	U	0.0573	0.0574	1.00	0.0996	pCi/L	05/29/19 11:23	08/04/19 21:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					05/29/19 11:23	08/04/19 21:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.341	0.355	1.00	0.460	pCi/L	05/29/19 12:41	07/17/19 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					05/29/19 12:41	07/17/19 08:56	1
Y Carrier	83.7		40 - 110					05/29/19 12:41	07/17/19 08:56	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	1.12		0.346	0.360	5.00	0.460	pCi/L		08/06/19 11:03	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10511 MW-5 DUP

Lab Sample ID: 400-169725-12

Date Collected: 04/23/19 13:38

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.0564	0.0564	1.00	0.117	pCi/L	05/30/19 11:04	08/13/19 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					05/30/19 11:04	08/13/19 13:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.562		0.294	0.299	1.00	0.436	pCi/L	05/30/19 13:38	07/19/19 08:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					05/30/19 13:38	07/19/19 08:39	1
Y Carrier	92.7		40 - 110					05/30/19 13:38	07/19/19 08:39	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	0.562		0.299	0.304	5.00	0.436	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10512 FB-1

Lab Sample ID: 400-169725-13

Date Collected: 04/23/19 14:08

Matrix: Water

Date Received: 05/06/19 15:20

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	0.0389	0.0392	1.00	0.118	pCi/L	05/30/19 11:04	08/13/19 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					05/30/19 11:04	08/13/19 13:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.321	U	0.280	0.281	1.00	0.449	pCi/L	05/30/19 13:38	07/19/19 08:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					05/30/19 13:38	07/19/19 08:39	1
Y Carrier	92.3		40 - 110					05/30/19 13:38	07/19/19 08:39	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	0.262	U	0.283	0.284	5.00	0.449	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10513 MW-7D

Lab Sample ID: 400-169725-14

Date Collected: 04/24/19 09:36

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0670	U	0.0813	0.0816	1.00	0.134	pCi/L	05/30/19 11:04	08/13/19 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					05/30/19 11:04	08/13/19 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	0.356	U	0.283	0.285	1.00	0.448	pCi/L	05/30/19 13:38	07/19/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					05/30/19 13:38	07/19/19 08:40	1
Y Carrier	90.1		40 - 110					05/30/19 13:38	07/19/19 08:40	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	0.423	U	0.294	0.296	5.00	0.448	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10514 MW-7S

Lab Sample ID: 400-169725-15

Date Collected: 04/24/19 10:58

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0279	U	0.0742	0.0742	1.00	0.136	pCi/L	05/30/19 11:04	08/13/19 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					05/30/19 11:04	08/13/19 13:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.120	U	0.251	0.251	1.00	0.431	pCi/L	05/30/19 13:38	07/19/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					05/30/19 13:38	07/19/19 08:40	1
Y Carrier	90.5		40 - 110					05/30/19 13:38	07/19/19 08:40	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	0.148	U	0.262	0.262	5.00	0.431	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10515 MW-8D

Lab Sample ID: 400-169725-16

Date Collected: 04/24/19 12:05

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0576	U	0.0738	0.0740	1.00	0.123	pCi/L	05/30/19 11:04	08/13/19 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					05/30/19 11:04	08/13/19 13:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.161	U	0.219	0.220	1.00	0.425	pCi/L	05/30/19 13:38	07/19/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					05/30/19 13:38	07/19/19 08:40	1
Y Carrier	96.8		40 - 110					05/30/19 13:38	07/19/19 08:40	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	-0.104	U	0.231	0.232	5.00	0.425	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10516 MW-8S

Lab Sample ID: 400-169725-17

Date Collected: 04/24/19 12:57

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0534	U	0.0690	0.0691	1.00	0.159	pCi/L	05/30/19 11:04	08/13/19 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/30/19 11:04	08/13/19 13:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.228	U	0.305	0.305	1.00	0.507	pCi/L	05/30/19 13:38	07/19/19 08:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/30/19 13:38	07/19/19 08:41	1
Y Carrier	95.3		40 - 110					05/30/19 13:38	07/19/19 08:41	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	0.175	U	0.313	0.313	5.00	0.507	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10517 MW-9D

Lab Sample ID: 400-169725-18

Date Collected: 04/24/19 13:43

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0649	U	0.0736	0.0739	1.00	0.119	pCi/L	05/30/19 11:04	08/13/19 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					05/30/19 11:04	08/13/19 13:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.185	U	0.246	0.247	1.00	0.411	pCi/L	05/30/19 13:38	07/19/19 08:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					05/30/19 13:38	07/19/19 08:41	1
Y Carrier	90.1		40 - 110					05/30/19 13:38	07/19/19 08:41	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	0.250	U	0.257	0.258	5.00	0.411	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10518 MW-9S

Lab Sample ID: 400-169725-19

Date Collected: 04/24/19 14:46

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0886	U	0.105	0.105	1.00	0.172	pCi/L	05/30/19 11:04	08/13/19 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					05/30/19 11:04	08/13/19 13:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.382	U	0.304	0.306	1.00	0.481	pCi/L	05/30/19 13:38	07/19/19 08:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					05/30/19 13:38	07/19/19 08:41	1
Y Carrier	92.3		40 - 110					05/30/19 13:38	07/19/19 08:41	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	0.471	U	0.322	0.324	5.00	0.481	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10519 FB-2

Lab Sample ID: 400-169725-20

Date Collected: 04/24/19 14:56

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0763	U	0.0482	0.0487	1.00	0.136	pCi/L	05/30/19 11:04	08/13/19 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					05/30/19 11:04	08/13/19 13:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.117	U	0.242	0.242	1.00	0.452	pCi/L	05/30/19 13:38	07/19/19 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					05/30/19 13:38	07/19/19 08:42	1
Y Carrier	90.8		40 - 110					05/30/19 13:38	07/19/19 08:42	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	-0.193	U	0.247	0.247	5.00	0.452	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10994 MW-3D

Lab Sample ID: 400-169725-21

Date Collected: 04/29/19 13:17

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0555	U	0.0693	0.0695	1.00	0.114	pCi/L	05/30/19 11:04	08/13/19 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/30/19 11:04	08/13/19 13:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0323	U	0.268	0.268	1.00	0.479	pCi/L	05/30/19 13:38	07/19/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/30/19 13:38	07/19/19 08:43	1
Y Carrier	87.5		40 - 110					05/30/19 13:38	07/19/19 08:43	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	0.0878	U	0.277	0.277	5.00	0.479	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10995 FB-3

Lab Sample ID: 400-169725-22

Date Collected: 04/29/19 12:50

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00960	U	0.0521	0.0521	1.00	0.117	pCi/L	05/30/19 11:04	08/13/19 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					05/30/19 11:04	08/13/19 13:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0433	U	0.250	0.250	1.00	0.454	pCi/L	05/30/19 13:38	07/19/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					05/30/19 13:38	07/19/19 08:43	1
Y Carrier	97.9		40 - 110					05/30/19 13:38	07/19/19 08:43	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	-0.0529	U	0.255	0.255	5.00	0.454	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10996 MW-4

Lab Sample ID: 400-169725-23

Date Collected: 04/29/19 14:25

Matrix: Water

Date Received: 05/06/19 15:20

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	0.0619	0.0620	1.00	0.138	pCi/L	05/30/19 11:04	08/13/19 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					05/30/19 11:04	08/13/19 13:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0634	U	0.321	0.321	1.00	0.562	pCi/L	05/30/19 13:38	07/19/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					05/30/19 13:38	07/19/19 08:43	1
Y Carrier	89.0		40 - 110					05/30/19 13:38	07/19/19 08:43	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	0.0390	U	0.327	0.327	5.00	0.562	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10997 MW-4 DUP

Lab Sample ID: 400-169725-24

Date Collected: 04/29/19 14:25

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0531	U	0.0775	0.0777	1.00	0.132	pCi/L	05/30/19 11:04	08/13/19 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/30/19 11:04	08/13/19 13:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0504	U	0.293	0.293	1.00	0.516	pCi/L	05/30/19 13:38	07/19/19 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					05/30/19 13:38	07/19/19 08:46	1
Y Carrier	87.5		40 - 110					05/30/19 13:38	07/19/19 08:46	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	0.103	U	0.303	0.303	5.00	0.516	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10998 MW-1

Lab Sample ID: 400-169725-25

Date Collected: 05/01/19 10:25

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0329	U	0.0726	0.0727	1.00	0.131	pCi/L	05/30/19 11:04	08/14/19 06:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/30/19 11:04	08/14/19 06:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.308	0.309	1.00	0.506	pCi/L	05/30/19 13:38	07/19/19 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/30/19 13:38	07/19/19 08:46	1
Y Carrier	89.3		40 - 110					05/30/19 13:38	07/19/19 08:46	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	0.312	U	0.316	0.317	5.00	0.506	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10999 MW-2

Lab Sample ID: 400-169725-26

Date Collected: 05/01/19 13:20

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0556	U	0.0910	0.0911	1.00	0.157	pCi/L	05/30/19 11:04	08/13/19 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/30/19 11:04	08/13/19 14:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.234	U	0.308	0.309	1.00	0.512	pCi/L	05/30/19 13:38	07/19/19 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/30/19 13:38	07/19/19 08:46	1
Y Carrier	87.9		40 - 110					05/30/19 13:38	07/19/19 08:46	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	0.290	U	0.321	0.322	5.00	0.512	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ11000 MW-11

Lab Sample ID: 400-169725-27

Date Collected: 05/01/19 15:12

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0645	U	0.0872	0.0873	1.00	0.146	pCi/L	05/30/19 11:04	08/13/19 16:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					05/30/19 11:04	08/13/19 16:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.281	0.281	1.00	0.464	pCi/L	05/30/19 13:38	07/19/19 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					05/30/19 13:38	07/19/19 08:46	1
Y Carrier	91.6		40 - 110					05/30/19 13:38	07/19/19 08:46	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	0.295	U	0.294	0.294	5.00	0.464	pCi/L		08/15/19 09:33	1

Client Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ11001 EB-1

Lab Sample ID: 400-169725-28

Date Collected: 05/01/19 16:00

Matrix: Water

Date Received: 05/06/19 15:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0161	U	0.0512	0.0512	1.00	0.116	pCi/L	05/30/19 11:04	08/13/19 16:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					05/30/19 11:04	08/13/19 16:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.146	U	0.227	0.227	1.00	0.438	pCi/L	05/30/19 13:38	07/19/19 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					05/30/19 13:38	07/19/19 08:47	1
Y Carrier	89.7		40 - 110					05/30/19 13:38	07/19/19 08:47	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	-0.162	U	0.233	0.233	5.00	0.438	pCi/L		08/15/19 09:33	1

Definitions/Glossary

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Client Sample ID: AZ10500 MW-3S

Lab Sample ID: 400-169725-1

Date Collected: 04/22/19 14:30

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	437844	08/03/19 14:52	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435081	07/17/19 08:47	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10501 MW-16

Lab Sample ID: 400-169725-2

Date Collected: 04/24/19 08:57

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	437844	08/03/19 14:52	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435081	07/17/19 08:47	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10502 MW-16 DUP

Lab Sample ID: 400-169725-3

Date Collected: 04/24/19 08:57

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	437844	08/03/19 14:53	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435081	07/17/19 08:47	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10503 MW-15

Lab Sample ID: 400-169725-4

Date Collected: 04/24/19 10:37

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	437925	08/03/19 14:54	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435081	07/17/19 08:47	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10504 MW-10

Lab Sample ID: 400-169725-5

Date Collected: 04/24/19 11:37

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	437902	08/03/19 14:54	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435081	07/17/19 08:47	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10505 MW-13S

Lab Sample ID: 400-169725-6

Date Collected: 04/24/19 13:05

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	437902	08/03/19 14:55	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435082	07/17/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10506 MW-13D

Lab Sample ID: 400-169725-7

Date Collected: 04/24/19 14:25

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	438093	08/04/19 21:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435082	07/17/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10507 MW-14

Lab Sample ID: 400-169725-8

Date Collected: 04/24/19 15:27

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	438093	08/04/19 21:18	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435082	07/17/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10508 PZ-5

Lab Sample ID: 400-169725-9

Date Collected: 04/23/19 11:42

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	438093	08/04/19 21:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435082	07/17/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10509 MW-6

Lab Sample ID: 400-169725-10

Date Collected: 04/23/19 12:53

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	438093	08/04/19 21:15	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435082	07/17/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10510 MW-5

Lab Sample ID: 400-169725-11

Date Collected: 04/23/19 13:38

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430133	05/29/19 11:23	ORM	TAL SL
Total/NA	Analysis	9315		1	438092	08/04/19 21:19	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430139	05/29/19 12:41	ORM	TAL SL
Total/NA	Analysis	9320		1	435082	07/17/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	438275	08/06/19 11:03	SMP	TAL SL

Client Sample ID: AZ10511 MW-5 DUP

Lab Sample ID: 400-169725-12

Date Collected: 04/23/19 13:38

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439308	08/13/19 13:42	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:39	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Client Sample ID: AZ10512 FB-1

Lab Sample ID: 400-169725-13

Date Collected: 04/23/19 14:08

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439308	08/13/19 13:42	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:39	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10513 MW-7D

Lab Sample ID: 400-169725-14

Date Collected: 04/24/19 09:36

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439394	08/13/19 13:44	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:40	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10514 MW-7S

Lab Sample ID: 400-169725-15

Date Collected: 04/24/19 10:58

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:46	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:40	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10515 MW-8D

Lab Sample ID: 400-169725-16

Date Collected: 04/24/19 12:05

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:50	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:40	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Client Sample ID: AZ10516 MW-8S

Lab Sample ID: 400-169725-17

Date Collected: 04/24/19 12:57

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:41	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10517 MW-9D

Lab Sample ID: 400-169725-18

Date Collected: 04/24/19 13:43

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:41	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10518 MW-9S

Lab Sample ID: 400-169725-19

Date Collected: 04/24/19 14:46

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:41	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10519 FB-2

Lab Sample ID: 400-169725-20

Date Collected: 04/24/19 14:56

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:42	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Client Sample ID: AZ10994 MW-3D

Lab Sample ID: 400-169725-21

Date Collected: 04/29/19 13:17

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10995 FB-3

Lab Sample ID: 400-169725-22

Date Collected: 04/29/19 12:50

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10996 MW-4

Lab Sample ID: 400-169725-23

Date Collected: 04/29/19 14:25

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:48	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435708	07/19/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10997 MW-4 DUP

Lab Sample ID: 400-169725-24

Date Collected: 04/29/19 14:25

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 13:48	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435709	07/19/19 08:46	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169725-1
SDG: Miller Ash Pond 1217

Client Sample ID: AZ10998 MW-1

Lab Sample ID: 400-169725-25

Date Collected: 05/01/19 10:25

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439521	08/14/19 06:50	KLS	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435709	07/19/19 08:46	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ10999 MW-2

Lab Sample ID: 400-169725-26

Date Collected: 05/01/19 13:20

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439426	08/13/19 14:17	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435709	07/19/19 08:46	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ11000 MW-11

Lab Sample ID: 400-169725-27

Date Collected: 05/01/19 15:12

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439308	08/13/19 16:05	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435709	07/19/19 08:46	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Client Sample ID: AZ11001 EB-1

Lab Sample ID: 400-169725-28

Date Collected: 05/01/19 16:00

Matrix: Water

Date Received: 05/06/19 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430237	05/30/19 11:04	ORM	TAL SL
Total/NA	Analysis	9315		1	439308	08/13/19 16:05	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430261	05/30/19 13:38	ORM	TAL SL
Total/NA	Analysis	9320		1	435709	07/19/19 08:47	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	439615	08/15/19 09:33	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Rad

Prep Batch: 430133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169725-1	AZ10500 MW-3S	Total/NA	Water	PrecSep-21	
400-169725-2	AZ10501 MW-16	Total/NA	Water	PrecSep-21	
400-169725-3	AZ10502 MW-16 DUP	Total/NA	Water	PrecSep-21	
400-169725-4	AZ10503 MW-15	Total/NA	Water	PrecSep-21	
400-169725-5	AZ10504 MW-10	Total/NA	Water	PrecSep-21	
400-169725-6	AZ10505 MW-13S	Total/NA	Water	PrecSep-21	
400-169725-7	AZ10506 MW-13D	Total/NA	Water	PrecSep-21	
400-169725-8	AZ10507 MW-14	Total/NA	Water	PrecSep-21	
400-169725-9	AZ10508 PZ-5	Total/NA	Water	PrecSep-21	
400-169725-10	AZ10509 MW-6	Total/NA	Water	PrecSep-21	
400-169725-11	AZ10510 MW-5	Total/NA	Water	PrecSep-21	
MB 160-430133/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-430133/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-169725-10 DU	AZ10509 MW-6	Total/NA	Water	PrecSep-21	

Prep Batch: 430139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169725-1	AZ10500 MW-3S	Total/NA	Water	PrecSep_0	
400-169725-2	AZ10501 MW-16	Total/NA	Water	PrecSep_0	
400-169725-3	AZ10502 MW-16 DUP	Total/NA	Water	PrecSep_0	
400-169725-4	AZ10503 MW-15	Total/NA	Water	PrecSep_0	
400-169725-5	AZ10504 MW-10	Total/NA	Water	PrecSep_0	
400-169725-6	AZ10505 MW-13S	Total/NA	Water	PrecSep_0	
400-169725-7	AZ10506 MW-13D	Total/NA	Water	PrecSep_0	
400-169725-8	AZ10507 MW-14	Total/NA	Water	PrecSep_0	
400-169725-9	AZ10508 PZ-5	Total/NA	Water	PrecSep_0	
400-169725-10	AZ10509 MW-6	Total/NA	Water	PrecSep_0	
400-169725-11	AZ10510 MW-5	Total/NA	Water	PrecSep_0	
MB 160-430139/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-430139/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-169725-10 DU	AZ10509 MW-6	Total/NA	Water	PrecSep_0	

Prep Batch: 430237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169725-12	AZ10511 MW-5 DUP	Total/NA	Water	PrecSep-21	
400-169725-13	AZ10512 FB-1	Total/NA	Water	PrecSep-21	
400-169725-14	AZ10513 MW-7D	Total/NA	Water	PrecSep-21	
400-169725-15	AZ10514 MW-7S	Total/NA	Water	PrecSep-21	
400-169725-16	AZ10515 MW-8D	Total/NA	Water	PrecSep-21	
400-169725-17	AZ10516 MW-8S	Total/NA	Water	PrecSep-21	
400-169725-18	AZ10517 MW-9D	Total/NA	Water	PrecSep-21	
400-169725-19	AZ10518 MW-9S	Total/NA	Water	PrecSep-21	
400-169725-20	AZ10519 FB-2	Total/NA	Water	PrecSep-21	
400-169725-21	AZ10994 MW-3D	Total/NA	Water	PrecSep-21	
400-169725-22	AZ10995 FB-3	Total/NA	Water	PrecSep-21	
400-169725-23	AZ10996 MW-4	Total/NA	Water	PrecSep-21	
400-169725-24	AZ10997 MW-4 DUP	Total/NA	Water	PrecSep-21	
400-169725-25	AZ10998 MW-1	Total/NA	Water	PrecSep-21	
400-169725-26	AZ10999 MW-2	Total/NA	Water	PrecSep-21	
400-169725-27	AZ11000 MW-11	Total/NA	Water	PrecSep-21	
400-169725-28	AZ11001 EB-1	Total/NA	Water	PrecSep-21	

QC Association Summary

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Rad (Continued)

Prep Batch: 430237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-430237/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-430237/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-169725-14 DU	AZ10513 MW-7D	Total/NA	Water	PrecSep-21	

Prep Batch: 430261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169725-12	AZ10511 MW-5 DUP	Total/NA	Water	PrecSep_0	
400-169725-13	AZ10512 FB-1	Total/NA	Water	PrecSep_0	
400-169725-14	AZ10513 MW-7D	Total/NA	Water	PrecSep_0	
400-169725-15	AZ10514 MW-7S	Total/NA	Water	PrecSep_0	
400-169725-16	AZ10515 MW-8D	Total/NA	Water	PrecSep_0	
400-169725-17	AZ10516 MW-8S	Total/NA	Water	PrecSep_0	
400-169725-18	AZ10517 MW-9D	Total/NA	Water	PrecSep_0	
400-169725-19	AZ10518 MW-9S	Total/NA	Water	PrecSep_0	
400-169725-20	AZ10519 FB-2	Total/NA	Water	PrecSep_0	
400-169725-21	AZ10994 MW-3D	Total/NA	Water	PrecSep_0	
400-169725-22	AZ10995 FB-3	Total/NA	Water	PrecSep_0	
400-169725-23	AZ10996 MW-4	Total/NA	Water	PrecSep_0	
400-169725-24	AZ10997 MW-4 DUP	Total/NA	Water	PrecSep_0	
400-169725-25	AZ10998 MW-1	Total/NA	Water	PrecSep_0	
400-169725-26	AZ10999 MW-2	Total/NA	Water	PrecSep_0	
400-169725-27	AZ11000 MW-11	Total/NA	Water	PrecSep_0	
400-169725-28	AZ11001 EB-1	Total/NA	Water	PrecSep_0	
MB 160-430261/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-430261/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-169725-14 DU	AZ10513 MW-7D	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-430133/23-A
Matrix: Water
Analysis Batch: 438092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430133

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03041	U	0.0531	0.0531	1.00	0.120	pCi/L	05/29/19 11:23	08/04/19 21:19	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/29/19 11:23	08/04/19 21:19	1
	102									

Lab Sample ID: LCS 160-430133/1-A
Matrix: Water
Analysis Batch: 437770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430133

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	8.842		0.939	1.00	0.103	pCi/L	78	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	103								

Lab Sample ID: 400-169725-10 DU
Matrix: Water
Analysis Batch: 438093

Client Sample ID: AZ10509 MW-6
Prep Type: Total/NA
Prep Batch: 430133

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0130	U	-0.02334	U	0.0434	1.00	0.100	pCi/L	0.39	1
Carrier	DU DU		Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	98.0									

Lab Sample ID: MB 160-430237/23-A
Matrix: Water
Analysis Batch: 439426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430237

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03512	U	0.0577	0.0578	1.00	0.133	pCi/L	05/30/19 11:04	08/13/19 16:03	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/30/19 11:04	08/13/19 16:03	1
	99.4									

Lab Sample ID: LCS 160-430237/1-A
Matrix: Water
Analysis Batch: 439308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430237

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	12.30		1.28	1.00	0.138	pCi/L	81	75 - 125

QC Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

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

Lab Sample ID: LCS 160-430237/1-A
 Matrix: Water
 Analysis Batch: 439308

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 430237

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110

Lab Sample ID: 400-169725-14 DU
 Matrix: Water
 Analysis Batch: 439394

Client Sample ID: AZ10513 MW-7D
 Prep Type: Total/NA
 Prep Batch: 430237

Analyte	Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-226	0.0670	U	0.06061	U	0.0785	1.00	0.131	pCi/L	0.04	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	98.6		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-430139/23-A
 Matrix: Water
 Analysis Batch: 435082

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 430139

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.3048	U	0.265	0.267	1.00	0.426	pCi/L	05/29/19 12:41	07/17/19 08:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110	05/29/19 12:41	07/17/19 08:57	1
Y Carrier	82.6		40 - 110	05/29/19 12:41	07/17/19 08:57	1

Lab Sample ID: LCS 160-430139/1-A
 Matrix: Water
 Analysis Batch: 435081

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 430139

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual						
Radium-228	9.02	8.352		0.988	1.00	0.440	pCi/L	93	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	103		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: 400-169725-10 DU
 Matrix: Water
 Analysis Batch: 435082

Client Sample ID: AZ10509 MW-6
 Prep Type: Total/NA
 Prep Batch: 430139

Analyte	Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.343	U	0.1065	U	0.227	1.00	0.388	pCi/L	0.52	1

QC Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

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

Lab Sample ID: 400-169725-10 DU
Matrix: Water
Analysis Batch: 435082

Client Sample ID: AZ10509 MW-6
Prep Type: Total/NA
Prep Batch: 430139

Carrier	<i>DU</i> %Yield	<i>DU</i> Qualifier	Limits
Ba Carrier	98.0		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-430261/23-A
Matrix: Water
Analysis Batch: 435709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430261

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.1134	U	0.251	0.251	1.00	0.469	pCi/L	05/30/19 13:38	07/19/19 08:47	1
Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	99.4		40 - 110					05/30/19 13:38	07/19/19 08:47	1
Y Carrier	89.7		40 - 110					05/30/19 13:38	07/19/19 08:47	1

Lab Sample ID: LCS 160-430261/1-A
Matrix: Water
Analysis Batch: 435708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430261

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits						
Ba Carrier	101		40 - 110						
Y Carrier	90.1		40 - 110						

Lab Sample ID: 400-169725-14 DU
Matrix: Water
Analysis Batch: 435708

Client Sample ID: AZ10513 MW-7D
Prep Type: Total/NA
Prep Batch: 430261

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.356	U	0.04569	U	0.269	1.00	0.473	pCi/L	0.56	1
Carrier	<i>DU</i> %Yield	<i>DU</i> Qualifier	Limits							
Ba Carrier	98.6		40 - 110							
Y Carrier	89.7		40 - 110							

QC Sample Results

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

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

Lab Sample ID: 400-169725-10 DU
Matrix: Water
Analysis Batch: 438275

Client Sample ID: AZ10509 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	0.356	U	0.08321	U	0.231	5.00	0.388	pCi/L	0.59	

Lab Sample ID: 400-169725-14 DU
Matrix: Water
Analysis Batch: 439615

Client Sample ID: AZ10513 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	0.423	U	0.1063	U	0.280	5.00	0.473	pCi/L	0.55	

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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



400-169725 COC

Client Information (Sub Contract Lab)
 Client Contact: Laura Mickif
 Company: Alabama Power General Test Laboratory
 Address: 744 County Rd 87 GSC#8
 City: Calera
 State, Zip: AL, 35040
 Phone: 205-664-6197
 Email: lbmickif@southemco.com
 Project Name: CCR
 Site: Miller Ash Pond 1217

Sampler: Nick Pitts
Lab P/N: Whimire, Chyenne R
E-Mail: chyenne.whimire@testamericainc.com
State of Origin: Alabama
Carrier Tracking Note:
Page 1 of 3

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Other, U=Unknown)	Preservation Code	Analysis Requested		Special Instructions/Note:
						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	
AZ10500	4/22/19	14:30	G	Water			X	1 MW-3S
AZ10501	4/24/19	08:57	G	Water			X	1 MW-16
AZ10502	4/24/19	08:57	G	Water			X	1 MW-16 Dup (Sample Duplicate)
AZ10503	4/24/19	10:37	G	Water			X	1 MW-15
AZ10504	4/24/19	11:37	G	Water			X	1 MW-10
AZ10505	4/24/19	13:05	G	Water			X	1 MW-13S
AZ10506	4/24/19	14:25	G	Water			X	1 MW-13D
AZ10507	4/24/19	15:27	G	Water			X	1 MW-14

Sample Identification - Client ID (Lab ID)

Due Date Requested:
 TAT Requester (days): Routine
 PO #: 40007143
 SSOW#: Miller Ash Pond 1217

Analysis Requested:
 9315, Ra226, 9320, Ra228, Ra228Ra228, GPPC

Preservation Codes:
 M - He
 N - Non
 B - NHOH
 A - HCL
 D - Acetate
 P - MCOAS
 R - Na2SO3
 F - NaOH
 G - H2SO4
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Z - other (specify)

Other:

Carrier Tracking Note:

State of Origin: Alabama

Accreditations Required (See note):

Analysis Requested:

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

SM 4500 F_C

SM 4500 C_LE

SM 4500 S_O4_E

Total Number of Containers

Special Instructions/Note:

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/OC Requirements:

Deliverable Requested I, II, III, IV, Other (Specify): Primary Deliverable Rank: 2

Empty Kit Relinquished by: Laura Mickif
 Date/Time: 04/25/2019 14:45
 Water APC Company

Relinquished by: Keith Kungu
 Date/Time: 5-3-19 15:00
 Water APC Company

Relinquished by: Keith Kungu
 Date/Time: 5-3-19 07:00
 Water APC Company

Custody Seals Intact: Custody Seal No. _____

Method of Shipment: _____
 Date/Time: 4-26-19 07:00
 Company: APC

Received by: _____
 Date/Time: _____
 Company: _____

Received by: Shullub
 Date/Time: 5-6-19 15:20
 Company: TAPEN

Cooler Temperature(s) °C and Other Remarks:
 23.1°C 1R-7 24.4°C 1R-7



Chain of Custody Record

Client Information (Sub Contract Lab) Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC48 City: Calera State, Zip: AL, 35040 Phone: 205-664-6197 Email: lbmickit@southalpower.com Project Name: CCR Site: Miller Ash Pond 1217		Sampler: Anthony Goggins Phone: Lab #M: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com State of Origin: Alabama Carrier Tracking Note: Page #: Page 2 of 3 Job #:		Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSOW#:		Accreditations Required (See note): 9315, Ra226, 9320, Ra228, Ra229, Ra229a, 9320, SM 4500 F.C, SM 4500 C.E, SM 4500 S04.E		Analysis Requested 9315, Ra226, 9320, Ra228, Ra229, Ra229a, 9320, SM 4500 F.C, SM 4500 C.E, SM 4500 S04.E		Carrier Tracking Note: Page #: Page 2 of 3 Job #:									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, O-Water, BI or FRESH, A=Air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers		Special Instructions/Note:	
AZ10508		4/23/19		11:42		G		Water		PZ-5		X		X		1		PZ-5	
AZ10509		4/23/19		12:53		G		Water		MW-6		X		X		3		MW-6	
AZ10510		4/23/19		13:38		G		Water		MW-5		X		X		1		MW-5	
AZ10511		4/23/19		13:38		G		Water		MW-5 Dup (Sample Duplicate)		X		X		1		MW-5 Dup (Sample Duplicate)	
AZ10512		4/23/19		14:08		G		Water		FB-1 (Field Blank)		X		X		1		FB-1 (Field Blank)	
AZ10513		4/24/19		09:36		G		Water		MW-7D		X		X		3		MW-7D	
AZ10514		4/24/19		10:58		G		Water		MW-7S		X		X		1		MW-7S	
AZ10515		4/24/19		12:05		G		Water		MW-8D		X		X		1		MW-8D	
AZ10516		4/24/19		12:57		G		Water		MW-8S		X		X		1		MW-8S	
AZ10517		4/24/19		13:43		G		Water		MW-9D		X		X		1		MW-9D	
AZ10518		4/24/19		14:46		G		Water		MW-9S		X		X		1		MW-9S	
AZ10519		4/24/19		14:56		G		Water		FB-2 (Field Blank)		X		X		1		FB-2 (Field Blank)	

Note: Since laboratory accreditation is subject to change, TestAmerica Laboratories, Inc. places the onerous of method, test kit & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain of custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyses/parameters being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any change to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

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/OC Requirements: _____

Empty Kit Relinquished by: Laura Mickit Date/Time: 04/25/2019 14:45 Water: APC Company: APC		Received by: <i>Krista Konyga</i> Date/Time: 5-3-19 / 0700 Water: APC Company: APC		Method of Shipment: Date/Time: 4-26-19 / 0700 Company: APC	
Relinquished by: <i>Krista Konyga</i> Date/Time:		Received by: <i>Shelby</i> Date/Time: 5-6-19 1520 Company: TA-PEN		Date/Time:	

Custody Seals Intact: Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 23.1°C 24.40C (R-7)
 Ver: 10/23/2016

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Laura Mickit Phone: _____ Email: cheyenne.whitmore@testamericainc.com State of Origin: Alabama Carmer Tracking No(s): _____ Lab PM: Whitmore, Cheyenne R COC No: 400-56525-24537.1 Page: _____ Page Total: 3 of 3 Job #: _____	
Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC#8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6197 Email: lmmickit@southernco.com Project Name: _____ CCR: _____ Site: Miller Ash Pond 1217	
Due Date Requested: TAT Requested (days): Routine PO #: _____ WO #: _____ Project #: 40007143 SSON#: _____	
Analysis Requested 9315 Ra226, 9320 Ra226, Ra226Ra226, GFPC SM 4500 SO4 E SM 4500 Cl E SM 4500 F C Perform MS/MSD (Yes or No)	
Field Filtered Sample (Yes or No) Matrix (Water, Seawater, Overhead, BT-Issue, A-Ju) Sample Type (C=Comp, G=Grab) Sample Time Sample Date Preservation Code:	
Sample Identification - Client ID (Lab ID) AZ10894 AZ10895 AZ10896 AZ10897 AZ10898 AZ10899 AZ11000 AZ11001	
Special Instructions/Note: MW-3D FB-3 MW-4 MW-4 Dup MW-1 MW-2 MW-11 EB-1	
Preservation Codes: A - HCL B - NiOH C - Zn Acetate D - Nitric Acid E - NaOH F - Na2SO4 G - Acetone H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - other (specify)	
Total Number of containers 1 1 1 1 1 1 1 1 1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable: Blank-2

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/OC Requirements: _____

Received by: _____
 Date/Time: 05/03/19 07:00
 Company: Water APC

Received by: _____
 Date/Time: _____
 Company: Company

Received by: _____
 Date/Time: _____
 Company: Company

Custody Seals Intact: Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-169725-1
SDG Number: Miller Ash Pond 1217

Login Number: 169725

List Number: 1

Creator: Conrady, Hank W

List Source: Eurofins 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	23.1°C 24.4°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	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-169725-1
SDG Number: Miller Ash Pond 1217

Login Number: 169725

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/10/19 12:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Laboratory: Eurofins 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		40150	07-01-20
Alabama	State Program	4	40150	06-30-20
ANAB	ISO/IEC 17025		L2471	02-22-20
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State		AZ0710	01-12-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-20
Florida	NELAP	4	E81010	06-30-20
Florida	NELAP		E81010	06-30-20
Georgia	State Program	4	E81010 (FL)	06-30-20
Illinois	NELAP	5	200041	10-09-19
Illinois	NELAP		004586	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-20
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-20
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-20
Massachusetts	State Program	1	M-FL094	06-30-20
Michigan	State		9912	05-06-20
Michigan	State Program	5	9912	05-06-20
New Jersey	NELAP	2	FL006	06-30-20
New Jersey	NELAP		FL006	07-30-20
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State		9810-186	08-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Pennsylvania	NELAP		68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19 *
Tennessee	State Program	4	TN02907	06-30-20
Texas	NELAP	6	T104704286-18-15	09-30-19
Texas	NELAP		T104704286	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-20
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-20
Washington	State		C915	05-15-20
Washington	State Program	10	C915	05-15-20
West Virginia DEP	State Program	3	136	07-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

Job ID: 400-169725-1
 SDG: Miller Ash Pond 1217

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP		L2305	04-06-22
ANAB	DoD		L2305	04-06-22
ANAB	DOE		L2305.01	04-06-22
Arizona	State		AZ0813	12-08-19
Arizona	State Program	9	AZ0813	12-08-19
California	State		2886	06-30-20
California	State Program	9	2886	06-30-20
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-20
Florida	NELAP		E87689	06-30-20
Hawaii	State Program	9	NA	06-30-20
Illinois	NELAP	5	200023	11-30-19
Illinois	NELAP		004553	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State		KY90125	12-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-20
Louisiana (DW)	NELAP	6	LA011	12-31-19
Louisiana (DW)	State		LA011	12-31-19
Maryland	State		310	09-30-20
Maryland	State Program	3	310	09-30-20
Michigan	State Program	5	9005	06-30-20
Missouri	State		780	06-30-22
Missouri	State Program	7	780	06-30-20
Nevada	State		MO000542020-1	07-31-20
New Jersey	NELAP	2	MO002	06-30-20
New Jersey	NELAP		MO002	06-30-20
New York	NELAP	2	11616	03-31-20
New York	NELAP		11616	04-01-20
North Dakota	State		R-207	06-30-20
North Dakota	State Program	8	R207	06-30-20
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State		9997	08-31-19
Oklahoma	State Program	6	9997	08-31-19 *
Pennsylvania	NELAP	3	68-00540	02-28-20
Pennsylvania	NELAP		68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-20
Texas	NELAP	6	T104704193-19-14	07-31-20
Texas	NELAP		T104704193-19-13	07-31-20
US Fish & Wildlife	Federal		058448	07-31-20
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542019-11	07-31-20
Virginia	NELAP	3	460230	06-14-20
Virginia	NELAP		10310	06-14-20
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-5	4/23/2019 13:27	Conductivity	1733.8	uS/cm
MR-AP-MW-5	4/23/2019 13:27	DO	0.06	mg/L
MR-AP-MW-5	4/23/2019 13:27	Depth to Water Detail	0	ft
MR-AP-MW-5	4/23/2019 13:27	Oxidation Reduction Potention	-93.6	mv
MR-AP-MW-5	4/23/2019 13:27	pH	6.95	pH
MR-AP-MW-5	4/23/2019 13:27	Temperature	17.18	C
MR-AP-MW-5	4/23/2019 13:27	Turbidity	0.28	NTU
MR-AP-MW-5	4/23/2019 13:32	Conductivity	1739.2	uS/cm
MR-AP-MW-5	4/23/2019 13:32	DO	0.05	mg/L
MR-AP-MW-5	4/23/2019 13:32	Depth to Water Detail	0	ft
MR-AP-MW-5	4/23/2019 13:32	Oxidation Reduction Potention	-92.9	mv
MR-AP-MW-5	4/23/2019 13:32	pH	7	pH
MR-AP-MW-5	4/23/2019 13:32	Temperature	16.99	C
MR-AP-MW-5	4/23/2019 13:32	Turbidity	0.33	NTU
MR-AP-MW-5	4/23/2019 13:37	Conductivity	1737.7	uS/cm
MR-AP-MW-5	4/23/2019 13:37	DO	0.04	mg/L
MR-AP-MW-5	4/23/2019 13:37	Depth to Water Detail	0	ft
MR-AP-MW-5	4/23/2019 13:37	Oxidation Reduction Potention	-92.7	mv
MR-AP-MW-5	4/23/2019 13:37	pH	7.03	pH
MR-AP-MW-5	4/23/2019 13:37	Temperature	16.96	C
MR-AP-MW-5	4/23/2019 13:37	Turbidity	0.3	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6	4/23/2019 12:36	Conductivity	1151.8	uS/cm
MR-AP-MW-6	4/23/2019 12:36	DO	0.09	mg/L
MR-AP-MW-6	4/23/2019 12:36	Depth to Water Detail	0	ft
MR-AP-MW-6	4/23/2019 12:36	Oxidation Reduction Potention	-23.3	mv
MR-AP-MW-6	4/23/2019 12:36	pH	6.1	pH
MR-AP-MW-6	4/23/2019 12:36	Temperature	20.05	C
MR-AP-MW-6	4/23/2019 12:36	Turbidity	0.32	NTU
MR-AP-MW-6	4/23/2019 12:41	Conductivity	1140.9	uS/cm
MR-AP-MW-6	4/23/2019 12:41	DO	0.08	mg/L
MR-AP-MW-6	4/23/2019 12:41	Depth to Water Detail	0	ft
MR-AP-MW-6	4/23/2019 12:41	Oxidation Reduction Potention	-19.6	mv
MR-AP-MW-6	4/23/2019 12:41	pH	6.07	pH
MR-AP-MW-6	4/23/2019 12:41	Temperature	19.88	C
MR-AP-MW-6	4/23/2019 12:41	Turbidity	1.15	NTU
MR-AP-MW-6	4/23/2019 12:46	Conductivity	1131	uS/cm
MR-AP-MW-6	4/23/2019 12:46	DO	0.07	mg/L
MR-AP-MW-6	4/23/2019 12:46	Depth to Water Detail	0	ft
MR-AP-MW-6	4/23/2019 12:46	Oxidation Reduction Potention	-17.2	mv
MR-AP-MW-6	4/23/2019 12:46	pH	6.06	pH
MR-AP-MW-6	4/23/2019 12:46	Temperature	19.7	C
MR-AP-MW-6	4/23/2019 12:46	Turbidity	0.46	NTU
MR-AP-MW-6	4/23/2019 12:51	Conductivity	1113	uS/cm
MR-AP-MW-6	4/23/2019 12:51	DO	0.06	mg/L
MR-AP-MW-6	4/23/2019 12:51	Depth to Water Detail	0	ft
MR-AP-MW-6	4/23/2019 12:51	Oxidation Reduction Potention	-14.8	mv
MR-AP-MW-6	4/23/2019 12:51	pH	6.06	pH
MR-AP-MW-6	4/23/2019 12:51	Temperature	19.68	C
MR-AP-MW-6	4/23/2019 12:51	Turbidity	0.93	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-7D	4/24/2019 9:19	Conductivity	1063.1	uS/cm
MR-AP-MW-7D	4/24/2019 9:19	DO	0.39	mg/L
MR-AP-MW-7D	4/24/2019 9:19	Depth to Water Detail	83.2	ft
MR-AP-MW-7D	4/24/2019 9:19	Oxidation Reduction Potention	-80.1	mv
MR-AP-MW-7D	4/24/2019 9:19	pH	6.7	pH
MR-AP-MW-7D	4/24/2019 9:19	Temperature	17.56	C
MR-AP-MW-7D	4/24/2019 9:19	Turbidity	13.1	NTU
MR-AP-MW-7D	4/24/2019 9:24	Conductivity	1057.9	uS/cm
MR-AP-MW-7D	4/24/2019 9:24	DO	0.3	mg/L
MR-AP-MW-7D	4/24/2019 9:24	Depth to Water Detail	83.2	ft
MR-AP-MW-7D	4/24/2019 9:24	Oxidation Reduction Potention	-74.8	mv
MR-AP-MW-7D	4/24/2019 9:24	pH	6.67	pH
MR-AP-MW-7D	4/24/2019 9:24	Temperature	17.51	C
MR-AP-MW-7D	4/24/2019 9:24	Turbidity	1.8	NTU
MR-AP-MW-7D	4/24/2019 9:29	Conductivity	1053.4	uS/cm
MR-AP-MW-7D	4/24/2019 9:29	DO	0.28	mg/L
MR-AP-MW-7D	4/24/2019 9:29	Depth to Water Detail	83.2	ft
MR-AP-MW-7D	4/24/2019 9:29	Oxidation Reduction Potention	-68.5	mv
MR-AP-MW-7D	4/24/2019 9:29	pH	6.65	pH
MR-AP-MW-7D	4/24/2019 9:29	Temperature	17.48	C
MR-AP-MW-7D	4/24/2019 9:29	Turbidity	0.97	NTU
MR-AP-MW-7D	4/24/2019 9:34	Conductivity	1051.4	uS/cm
MR-AP-MW-7D	4/24/2019 9:34	DO	0.26	mg/L
MR-AP-MW-7D	4/24/2019 9:34	Depth to Water Detail	83.2	ft
MR-AP-MW-7D	4/24/2019 9:34	Oxidation Reduction Potention	-62.9	mv
MR-AP-MW-7D	4/24/2019 9:34	pH	6.63	pH
MR-AP-MW-7D	4/24/2019 9:34	Temperature	17.48	C
MR-AP-MW-7D	4/24/2019 9:34	Turbidity	0.53	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-7S	4/24/2019 10:21	Conductivity	865.2	uS/cm
MR-AP-MW-7S	4/24/2019 10:21	DO	0.16	mg/L
MR-AP-MW-7S	4/24/2019 10:21	Depth to Water Detail	14.42	ft
MR-AP-MW-7S	4/24/2019 10:21	Oxidation Reduction Potention	-40.2	mv
MR-AP-MW-7S	4/24/2019 10:21	pH	6.44	pH
MR-AP-MW-7S	4/24/2019 10:21	Temperature	17.7	C
MR-AP-MW-7S	4/24/2019 10:21	Turbidity	101.4	NTU
MR-AP-MW-7S	4/24/2019 10:26	Conductivity	864.7	uS/cm
MR-AP-MW-7S	4/24/2019 10:26	DO	0.15	mg/L
MR-AP-MW-7S	4/24/2019 10:26	Depth to Water Detail	14.66	ft
MR-AP-MW-7S	4/24/2019 10:26	Oxidation Reduction Potention	-37.2	mv
MR-AP-MW-7S	4/24/2019 10:26	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:26	Temperature	17.79	C
MR-AP-MW-7S	4/24/2019 10:26	Turbidity	101.2	NTU
MR-AP-MW-7S	4/24/2019 10:31	Conductivity	866.7	uS/cm
MR-AP-MW-7S	4/24/2019 10:31	DO	0.15	mg/L
MR-AP-MW-7S	4/24/2019 10:31	Depth to Water Detail	14.89	ft
MR-AP-MW-7S	4/24/2019 10:31	Oxidation Reduction Potention	-33.2	mv
MR-AP-MW-7S	4/24/2019 10:31	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:31	Temperature	17.83	C
MR-AP-MW-7S	4/24/2019 10:31	Turbidity	124	NTU
MR-AP-MW-7S	4/24/2019 10:36	Conductivity	864.2	uS/cm
MR-AP-MW-7S	4/24/2019 10:36	DO	0.14	mg/L
MR-AP-MW-7S	4/24/2019 10:36	Depth to Water Detail	15	ft
MR-AP-MW-7S	4/24/2019 10:36	Oxidation Reduction Potention	-32.6	mv
MR-AP-MW-7S	4/24/2019 10:36	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:36	Temperature	17.83	C
MR-AP-MW-7S	4/24/2019 10:36	Turbidity	25.8	NTU
MR-AP-MW-7S	4/24/2019 10:41	Conductivity	863.3	uS/cm
MR-AP-MW-7S	4/24/2019 10:41	DO	0.15	mg/L
MR-AP-MW-7S	4/24/2019 10:41	Depth to Water Detail	15	ft
MR-AP-MW-7S	4/24/2019 10:41	Oxidation Reduction Potention	-31.5	mv
MR-AP-MW-7S	4/24/2019 10:41	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:41	Temperature	17.87	C
MR-AP-MW-7S	4/24/2019 10:41	Turbidity	17.6	NTU
MR-AP-MW-7S	4/24/2019 10:46	Conductivity	863.6	uS/cm
MR-AP-MW-7S	4/24/2019 10:46	DO	0.14	mg/L
MR-AP-MW-7S	4/24/2019 10:46	Depth to Water Detail	15	ft
MR-AP-MW-7S	4/24/2019 10:46	Oxidation Reduction Potention	-30.2	mv
MR-AP-MW-7S	4/24/2019 10:46	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:46	Temperature	17.88	C
MR-AP-MW-7S	4/24/2019 10:46	Turbidity	11.34	NTU
MR-AP-MW-7S	4/24/2019 10:51	Conductivity	863.2	uS/cm
MR-AP-MW-7S	4/24/2019 10:51	DO	0.15	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-7S	4/24/2019 10:51	Depth to Water Detail	15	ft
MR-AP-MW-7S	4/24/2019 10:51	Oxidation Reduction Potention	-29	mv
MR-AP-MW-7S	4/24/2019 10:51	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:51	Temperature	17.92	C
MR-AP-MW-7S	4/24/2019 10:51	Turbidity	10.25	NTU
MR-AP-MW-7S	4/24/2019 10:56	Conductivity	863.3	uS/cm
MR-AP-MW-7S	4/24/2019 10:56	DO	0.14	mg/L
MR-AP-MW-7S	4/24/2019 10:56	Depth to Water Detail	15	ft
MR-AP-MW-7S	4/24/2019 10:56	Oxidation Reduction Potention	-27.8	mv
MR-AP-MW-7S	4/24/2019 10:56	pH	6.43	pH
MR-AP-MW-7S	4/24/2019 10:56	Temperature	17.92	C
MR-AP-MW-7S	4/24/2019 10:56	Turbidity	8.75	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-8D	4/24/2019 11:48	Conductivity	922	uS/cm
MR-AP-MW-8D	4/24/2019 11:48	DO	0.28	mg/L
MR-AP-MW-8D	4/24/2019 11:48	Depth to Water Detail	44.75	ft
MR-AP-MW-8D	4/24/2019 11:48	Oxidation Reduction Potention	35.1	mv
MR-AP-MW-8D	4/24/2019 11:48	pH	6.08	pH
MR-AP-MW-8D	4/24/2019 11:48	Temperature	19.03	C
MR-AP-MW-8D	4/24/2019 11:48	Turbidity	1.6	NTU
MR-AP-MW-8D	4/24/2019 11:53	Conductivity	948.6	uS/cm
MR-AP-MW-8D	4/24/2019 11:53	DO	0.25	mg/L
MR-AP-MW-8D	4/24/2019 11:53	Depth to Water Detail	44.95	ft
MR-AP-MW-8D	4/24/2019 11:53	Oxidation Reduction Potention	39.1	mv
MR-AP-MW-8D	4/24/2019 11:53	pH	6.01	pH
MR-AP-MW-8D	4/24/2019 11:53	Temperature	18.97	C
MR-AP-MW-8D	4/24/2019 11:53	Turbidity	0.93	NTU
MR-AP-MW-8D	4/24/2019 11:58	Conductivity	962.6	uS/cm
MR-AP-MW-8D	4/24/2019 11:58	DO	0.24	mg/L
MR-AP-MW-8D	4/24/2019 11:58	Depth to Water Detail	44.99	ft
MR-AP-MW-8D	4/24/2019 11:58	Oxidation Reduction Potention	44.7	mv
MR-AP-MW-8D	4/24/2019 11:58	pH	5.95	pH
MR-AP-MW-8D	4/24/2019 11:58	Temperature	18.92	C
MR-AP-MW-8D	4/24/2019 11:58	Turbidity	1.12	NTU
MR-AP-MW-8D	4/24/2019 12:03	Conductivity	973.3	uS/cm
MR-AP-MW-8D	4/24/2019 12:03	DO	0.24	mg/L
MR-AP-MW-8D	4/24/2019 12:03	Depth to Water Detail	45.09	ft
MR-AP-MW-8D	4/24/2019 12:03	Oxidation Reduction Potention	50.9	mv
MR-AP-MW-8D	4/24/2019 12:03	pH	5.91	pH
MR-AP-MW-8D	4/24/2019 12:03	Temperature	18.89	C
MR-AP-MW-8D	4/24/2019 12:03	Turbidity	1.24	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-8S	4/24/2019 12:35	Conductivity	879	uS/cm
MR-AP-MW-8S	4/24/2019 12:35	DO	0.28	mg/L
MR-AP-MW-8S	4/24/2019 12:35	Depth to Water Detail	38.85	ft
MR-AP-MW-8S	4/24/2019 12:35	Oxidation Reduction Potention	132.3	mv
MR-AP-MW-8S	4/24/2019 12:35	pH	6.67	pH
MR-AP-MW-8S	4/24/2019 12:35	Temperature	19.07	C
MR-AP-MW-8S	4/24/2019 12:35	Turbidity	0.65	NTU
MR-AP-MW-8S	4/24/2019 12:40	Conductivity	886.7	uS/cm
MR-AP-MW-8S	4/24/2019 12:40	DO	1.11	mg/L
MR-AP-MW-8S	4/24/2019 12:40	Depth to Water Detail	38.85	ft
MR-AP-MW-8S	4/24/2019 12:40	Oxidation Reduction Potention	128.2	mv
MR-AP-MW-8S	4/24/2019 12:40	pH	6.63	pH
MR-AP-MW-8S	4/24/2019 12:40	Temperature	18.98	C
MR-AP-MW-8S	4/24/2019 12:40	Turbidity	2.44	NTU
MR-AP-MW-8S	4/24/2019 12:45	Conductivity	895.6	uS/cm
MR-AP-MW-8S	4/24/2019 12:45	DO	0.25	mg/L
MR-AP-MW-8S	4/24/2019 12:45	Depth to Water Detail	38.85	ft
MR-AP-MW-8S	4/24/2019 12:45	Oxidation Reduction Potention	126.4	mv
MR-AP-MW-8S	4/24/2019 12:45	pH	6.62	pH
MR-AP-MW-8S	4/24/2019 12:45	Temperature	18.93	C
MR-AP-MW-8S	4/24/2019 12:45	Turbidity	1.3	NTU
MR-AP-MW-8S	4/24/2019 12:50	Conductivity	893.5	uS/cm
MR-AP-MW-8S	4/24/2019 12:50	DO	0.26	mg/L
MR-AP-MW-8S	4/24/2019 12:50	Depth to Water Detail	38.85	ft
MR-AP-MW-8S	4/24/2019 12:50	Oxidation Reduction Potention	125.5	mv
MR-AP-MW-8S	4/24/2019 12:50	pH	6.62	pH
MR-AP-MW-8S	4/24/2019 12:50	Temperature	18.95	C
MR-AP-MW-8S	4/24/2019 12:50	Turbidity	0.77	NTU
MR-AP-MW-8S	4/24/2019 12:55	Conductivity	891.1	uS/cm
MR-AP-MW-8S	4/24/2019 12:55	DO	0.26	mg/L
MR-AP-MW-8S	4/24/2019 12:55	Depth to Water Detail	38.85	ft
MR-AP-MW-8S	4/24/2019 12:55	Oxidation Reduction Potention	120.5	mv
MR-AP-MW-8S	4/24/2019 12:55	pH	6.62	pH
MR-AP-MW-8S	4/24/2019 12:55	Temperature	18.92	C
MR-AP-MW-8S	4/24/2019 12:55	Turbidity	0.59	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-9D	4/24/2019 13:26	Conductivity	1018.4	uS/cm
MR-AP-MW-9D	4/24/2019 13:26	DO	0.36	mg/L
MR-AP-MW-9D	4/24/2019 13:26	Depth to Water Detail	37	ft
MR-AP-MW-9D	4/24/2019 13:26	Oxidation Reduction Potention	-8.6	mv
MR-AP-MW-9D	4/24/2019 13:26	pH	5.61	pH
MR-AP-MW-9D	4/24/2019 13:26	Temperature	19.6	C
MR-AP-MW-9D	4/24/2019 13:26	Turbidity	0.71	NTU
MR-AP-MW-9D	4/24/2019 13:31	Conductivity	1023.1	uS/cm
MR-AP-MW-9D	4/24/2019 13:31	DO	0.3	mg/L
MR-AP-MW-9D	4/24/2019 13:31	Depth to Water Detail	37	ft
MR-AP-MW-9D	4/24/2019 13:31	Oxidation Reduction Potention	3.7	mv
MR-AP-MW-9D	4/24/2019 13:31	pH	5.61	pH
MR-AP-MW-9D	4/24/2019 13:31	Temperature	19.39	C
MR-AP-MW-9D	4/24/2019 13:31	Turbidity	0.51	NTU
MR-AP-MW-9D	4/24/2019 13:36	Conductivity	1022	uS/cm
MR-AP-MW-9D	4/24/2019 13:36	DO	0.27	mg/L
MR-AP-MW-9D	4/24/2019 13:36	Depth to Water Detail	37	ft
MR-AP-MW-9D	4/24/2019 13:36	Oxidation Reduction Potention	10	mv
MR-AP-MW-9D	4/24/2019 13:36	pH	5.62	pH
MR-AP-MW-9D	4/24/2019 13:36	Temperature	19.3	C
MR-AP-MW-9D	4/24/2019 13:36	Turbidity	0.45	NTU
MR-AP-MW-9D	4/24/2019 13:41	Conductivity	1020.7	uS/cm
MR-AP-MW-9D	4/24/2019 13:41	DO	0.26	mg/L
MR-AP-MW-9D	4/24/2019 13:41	Depth to Water Detail	37	ft
MR-AP-MW-9D	4/24/2019 13:41	Oxidation Reduction Potention	14.4	mv
MR-AP-MW-9D	4/24/2019 13:41	pH	5.62	pH
MR-AP-MW-9D	4/24/2019 13:41	Temperature	19.31	C
MR-AP-MW-9D	4/24/2019 13:41	Turbidity	0.54	NTU

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Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-9S	4/24/2019 14:14	Conductivity	977.7	uS/cm
MR-AP-MW-9S	4/24/2019 14:14	DO	4.97	mg/L
MR-AP-MW-9S	4/24/2019 14:14	Depth to Water Detail	30.8	ft
MR-AP-MW-9S	4/24/2019 14:14	Oxidation Reduction Potention	214	mv
MR-AP-MW-9S	4/24/2019 14:14	pH	5.93	pH
MR-AP-MW-9S	4/24/2019 14:14	Temperature	19.12	C
MR-AP-MW-9S	4/24/2019 14:14	Turbidity	0.69	NTU
MR-AP-MW-9S	4/24/2019 14:19	Conductivity	997.1	uS/cm
MR-AP-MW-9S	4/24/2019 14:19	DO	4.98	mg/L
MR-AP-MW-9S	4/24/2019 14:19	Depth to Water Detail	31.65	ft
MR-AP-MW-9S	4/24/2019 14:19	Oxidation Reduction Potention	227.6	mv
MR-AP-MW-9S	4/24/2019 14:19	pH	5.96	pH
MR-AP-MW-9S	4/24/2019 14:19	Temperature	19.1	C
MR-AP-MW-9S	4/24/2019 14:19	Turbidity	0.59	NTU
MR-AP-MW-9S	4/24/2019 14:24	Conductivity	1042	uS/cm
MR-AP-MW-9S	4/24/2019 14:24	DO	4.5	mg/L
MR-AP-MW-9S	4/24/2019 14:24	Depth to Water Detail	32.3	ft
MR-AP-MW-9S	4/24/2019 14:24	Oxidation Reduction Potention	234.2	mv
MR-AP-MW-9S	4/24/2019 14:24	pH	5.9	pH
MR-AP-MW-9S	4/24/2019 14:24	Temperature	19.1	C
MR-AP-MW-9S	4/24/2019 14:24	Turbidity	0.5	NTU
MR-AP-MW-9S	4/24/2019 14:29	Conductivity	1063.1	uS/cm
MR-AP-MW-9S	4/24/2019 14:29	DO	4.19	mg/L
MR-AP-MW-9S	4/24/2019 14:29	Depth to Water Detail	32.65	ft
MR-AP-MW-9S	4/24/2019 14:29	Oxidation Reduction Potention	240.7	mv
MR-AP-MW-9S	4/24/2019 14:29	pH	5.86	pH
MR-AP-MW-9S	4/24/2019 14:29	Temperature	19.15	C
MR-AP-MW-9S	4/24/2019 14:29	Turbidity	0.59	NTU
MR-AP-MW-9S	4/24/2019 14:34	Conductivity	1069.2	uS/cm
MR-AP-MW-9S	4/24/2019 14:34	DO	3.83	mg/L
MR-AP-MW-9S	4/24/2019 14:34	Depth to Water Detail	33	ft
MR-AP-MW-9S	4/24/2019 14:34	Oxidation Reduction Potention	245.5	mv
MR-AP-MW-9S	4/24/2019 14:34	pH	5.83	pH
MR-AP-MW-9S	4/24/2019 14:34	Temperature	19.11	C
MR-AP-MW-9S	4/24/2019 14:34	Turbidity	0.79	NTU
MR-AP-MW-9S	4/24/2019 14:39	Conductivity	1064.1	uS/cm
MR-AP-MW-9S	4/24/2019 14:39	DO	3.68	mg/L
MR-AP-MW-9S	4/24/2019 14:39	Depth to Water Detail	33.19	ft
MR-AP-MW-9S	4/24/2019 14:39	Oxidation Reduction Potention	253.2	mv
MR-AP-MW-9S	4/24/2019 14:39	pH	5.82	pH
MR-AP-MW-9S	4/24/2019 14:39	Temperature	19.08	C
MR-AP-MW-9S	4/24/2019 14:39	Turbidity	0.86	NTU
MR-AP-MW-9S	4/24/2019 14:44	Conductivity	1058.5	uS/cm
MR-AP-MW-9S	4/24/2019 14:44	DO	3.52	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-9S	4/24/2019 14:44	Depth to Water Detail	33.24	ft
MR-AP-MW-9S	4/24/2019 14:44	Oxidation Reduction Potention	261	mv
MR-AP-MW-9S	4/24/2019 14:44	pH	5.82	pH
MR-AP-MW-9S	4/24/2019 14:44	Temperature	19.15	C
MR-AP-MW-9S	4/24/2019 14:44	Turbidity	0.97	NTU

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Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-PZ-5	4/23/2019 10:50	Conductivity	817	uS/cm
MR-AP-PZ-5	4/23/2019 10:50	DO	0.83	mg/L
MR-AP-PZ-5	4/23/2019 10:50	Depth to Water Detail	1.55	ft
MR-AP-PZ-5	4/23/2019 10:50	Oxidation Reduction Potention	-116.2	mv
MR-AP-PZ-5	4/23/2019 10:50	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 10:50	Temperature	19.26	C
MR-AP-PZ-5	4/23/2019 10:50	Turbidity	5.36	NTU
MR-AP-PZ-5	4/23/2019 10:55	Conductivity	803.9	uS/cm
MR-AP-PZ-5	4/23/2019 10:55	DO	0.56	mg/L
MR-AP-PZ-5	4/23/2019 10:55	Depth to Water Detail	1.94	ft
MR-AP-PZ-5	4/23/2019 10:55	Oxidation Reduction Potention	-208.1	mv
MR-AP-PZ-5	4/23/2019 10:55	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 10:55	Temperature	19.56	C
MR-AP-PZ-5	4/23/2019 10:55	Turbidity	3.84	NTU
MR-AP-PZ-5	4/23/2019 11:00	Conductivity	799.9	uS/cm
MR-AP-PZ-5	4/23/2019 11:00	DO	0.43	mg/L
MR-AP-PZ-5	4/23/2019 11:00	Depth to Water Detail	2.2	ft
MR-AP-PZ-5	4/23/2019 11:00	Oxidation Reduction Potention	-236.4	mv
MR-AP-PZ-5	4/23/2019 11:00	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 11:00	Temperature	19.57	C
MR-AP-PZ-5	4/23/2019 11:00	Turbidity	3.04	NTU
MR-AP-PZ-5	4/23/2019 11:05	Conductivity	792.3	uS/cm
MR-AP-PZ-5	4/23/2019 11:05	DO	0.35	mg/L
MR-AP-PZ-5	4/23/2019 11:05	Depth to Water Detail	2.52	ft
MR-AP-PZ-5	4/23/2019 11:05	Oxidation Reduction Potention	-249.4	mv
MR-AP-PZ-5	4/23/2019 11:05	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 11:05	Temperature	19.61	C
MR-AP-PZ-5	4/23/2019 11:05	Turbidity	2.54	NTU
MR-AP-PZ-5	4/23/2019 11:10	Conductivity	784.5	uS/cm
MR-AP-PZ-5	4/23/2019 11:10	DO	0.31	mg/L
MR-AP-PZ-5	4/23/2019 11:10	Depth to Water Detail	2.9	ft
MR-AP-PZ-5	4/23/2019 11:10	Oxidation Reduction Potention	-258.7	mv
MR-AP-PZ-5	4/23/2019 11:10	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 11:10	Temperature	19.66	C
MR-AP-PZ-5	4/23/2019 11:10	Turbidity	2.37	NTU
MR-AP-PZ-5	4/23/2019 11:15	Conductivity	775.5	uS/cm
MR-AP-PZ-5	4/23/2019 11:15	DO	0.32	mg/L
MR-AP-PZ-5	4/23/2019 11:15	Depth to Water Detail	3.12	ft
MR-AP-PZ-5	4/23/2019 11:15	Oxidation Reduction Potention	-264.9	mv
MR-AP-PZ-5	4/23/2019 11:15	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 11:15	Temperature	19.6	C
MR-AP-PZ-5	4/23/2019 11:15	Turbidity	3.32	NTU
MR-AP-PZ-5	4/23/2019 11:20	Conductivity	767.6	uS/cm
MR-AP-PZ-5	4/23/2019 11:20	DO	0.33	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-PZ-5	4/23/2019 11:20	Depth to Water Detail	3.33	ft
MR-AP-PZ-5	4/23/2019 11:20	Oxidation Reduction Potention	-269.3	mv
MR-AP-PZ-5	4/23/2019 11:20	pH	8.18	pH
MR-AP-PZ-5	4/23/2019 11:20	Temperature	19.48	C
MR-AP-PZ-5	4/23/2019 11:20	Turbidity	3	NTU
MR-AP-PZ-5	4/23/2019 11:25	Conductivity	761.1	uS/cm
MR-AP-PZ-5	4/23/2019 11:25	DO	0.32	mg/L
MR-AP-PZ-5	4/23/2019 11:25	Depth to Water Detail	3.52	ft
MR-AP-PZ-5	4/23/2019 11:25	Oxidation Reduction Potention	-273.3	mv
MR-AP-PZ-5	4/23/2019 11:25	pH	8.18	pH
MR-AP-PZ-5	4/23/2019 11:25	Temperature	19.66	C
MR-AP-PZ-5	4/23/2019 11:25	Turbidity	3.54	NTU
MR-AP-PZ-5	4/23/2019 11:30	Conductivity	761.4	uS/cm
MR-AP-PZ-5	4/23/2019 11:30	DO	0.3	mg/L
MR-AP-PZ-5	4/23/2019 11:30	Depth to Water Detail	3.72	ft
MR-AP-PZ-5	4/23/2019 11:30	Oxidation Reduction Potention	-276.8	mv
MR-AP-PZ-5	4/23/2019 11:30	pH	8.18	pH
MR-AP-PZ-5	4/23/2019 11:30	Temperature	19.61	C
MR-AP-PZ-5	4/23/2019 11:30	Turbidity	2.66	NTU
MR-AP-PZ-5	4/23/2019 11:35	Conductivity	755.2	uS/cm
MR-AP-PZ-5	4/23/2019 11:35	DO	0.3	mg/L
MR-AP-PZ-5	4/23/2019 11:35	Depth to Water Detail	3.85	ft
MR-AP-PZ-5	4/23/2019 11:35	Oxidation Reduction Potention	-280.7	mv
MR-AP-PZ-5	4/23/2019 11:35	pH	8.19	pH
MR-AP-PZ-5	4/23/2019 11:35	Temperature	19.52	C
MR-AP-PZ-5	4/23/2019 11:35	Turbidity	2.1	NTU
MR-AP-PZ-5	4/23/2019 11:40	Conductivity	762.4	uS/cm
MR-AP-PZ-5	4/23/2019 11:40	DO	0.34	mg/L
MR-AP-PZ-5	4/23/2019 11:40	Depth to Water Detail	3.92	ft
MR-AP-PZ-5	4/23/2019 11:40	Oxidation Reduction Potention	-281.5	mv
MR-AP-PZ-5	4/23/2019 11:40	pH	8.18	pH
MR-AP-PZ-5	4/23/2019 11:40	Temperature	19.37	C
MR-AP-PZ-5	4/23/2019 11:40	Turbidity	2.05	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3S	4/22/2019 13:42	Conductivity	1016.1	uS/cm
MR-AP-MW-3S	4/22/2019 13:42	DO	0.35	mg/L
MR-AP-MW-3S	4/22/2019 13:42	Depth to Water Detail	88.28	ft
MR-AP-MW-3S	4/22/2019 13:42	Oxidation Reduction Potention	-88.2	mv
MR-AP-MW-3S	4/22/2019 13:42	pH	9.35	pH
MR-AP-MW-3S	4/22/2019 13:42	Temperature	19.2	C
MR-AP-MW-3S	4/22/2019 13:42	Turbidity	12.74	NTU
MR-AP-MW-3S	4/22/2019 13:47	Conductivity	1032.7	uS/cm
MR-AP-MW-3S	4/22/2019 13:47	DO	0.24	mg/L
MR-AP-MW-3S	4/22/2019 13:47	Depth to Water Detail	88.28	ft
MR-AP-MW-3S	4/22/2019 13:47	Oxidation Reduction Potention	-63.4	mv
MR-AP-MW-3S	4/22/2019 13:47	pH	9.42	pH
MR-AP-MW-3S	4/22/2019 13:47	Temperature	18.84	C
MR-AP-MW-3S	4/22/2019 13:47	Turbidity	11.4	NTU
MR-AP-MW-3S	4/22/2019 13:52	Conductivity	1088.3	uS/cm
MR-AP-MW-3S	4/22/2019 13:52	DO	0.21	mg/L
MR-AP-MW-3S	4/22/2019 13:52	Depth to Water Detail	88.4	ft
MR-AP-MW-3S	4/22/2019 13:52	Oxidation Reduction Potention	-67	mv
MR-AP-MW-3S	4/22/2019 13:52	pH	9.38	pH
MR-AP-MW-3S	4/22/2019 13:52	Temperature	18.7	C
MR-AP-MW-3S	4/22/2019 13:52	Turbidity	11.5	NTU
MR-AP-MW-3S	4/22/2019 13:57	Conductivity	1158.6	uS/cm
MR-AP-MW-3S	4/22/2019 13:57	DO	0.2	mg/L
MR-AP-MW-3S	4/22/2019 13:57	Depth to Water Detail	88.4	ft
MR-AP-MW-3S	4/22/2019 13:57	Oxidation Reduction Potention	-71	mv
MR-AP-MW-3S	4/22/2019 13:57	pH	9.35	pH
MR-AP-MW-3S	4/22/2019 13:57	Temperature	18.68	C
MR-AP-MW-3S	4/22/2019 13:57	Turbidity	12.53	NTU
MR-AP-MW-3S	4/22/2019 14:02	Conductivity	1222.4	uS/cm
MR-AP-MW-3S	4/22/2019 14:02	DO	0.19	mg/L
MR-AP-MW-3S	4/22/2019 14:02	Depth to Water Detail	88.48	ft
MR-AP-MW-3S	4/22/2019 14:02	Oxidation Reduction Potention	-71.6	mv
MR-AP-MW-3S	4/22/2019 14:02	pH	9.33	pH
MR-AP-MW-3S	4/22/2019 14:02	Temperature	18.61	C
MR-AP-MW-3S	4/22/2019 14:02	Turbidity	11.1	NTU
MR-AP-MW-3S	4/22/2019 14:07	Conductivity	1305.3	uS/cm
MR-AP-MW-3S	4/22/2019 14:07	DO	0.18	mg/L
MR-AP-MW-3S	4/22/2019 14:07	Depth to Water Detail	88.48	ft
MR-AP-MW-3S	4/22/2019 14:07	Oxidation Reduction Potention	-70.8	mv
MR-AP-MW-3S	4/22/2019 14:07	pH	9.28	pH
MR-AP-MW-3S	4/22/2019 14:07	Temperature	18.64	C
MR-AP-MW-3S	4/22/2019 14:07	Turbidity	10.24	NTU
MR-AP-MW-3S	4/22/2019 14:12	Conductivity	1351.4	uS/cm
MR-AP-MW-3S	4/22/2019 14:12	DO	0.18	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3S	4/22/2019 14:12	Depth to Water Detail	88.55	ft
MR-AP-MW-3S	4/22/2019 14:12	Oxidation Reduction Potention	-69.6	mv
MR-AP-MW-3S	4/22/2019 14:12	pH	9.26	pH
MR-AP-MW-3S	4/22/2019 14:12	Temperature	18.57	C
MR-AP-MW-3S	4/22/2019 14:12	Turbidity	9.33	NTU
MR-AP-MW-3S	4/22/2019 14:17	Conductivity	1424.9	uS/cm
MR-AP-MW-3S	4/22/2019 14:17	DO	0.17	mg/L
MR-AP-MW-3S	4/22/2019 14:17	Depth to Water Detail	88.6	ft
MR-AP-MW-3S	4/22/2019 14:17	Oxidation Reduction Potention	-68.2	mv
MR-AP-MW-3S	4/22/2019 14:17	pH	9.22	pH
MR-AP-MW-3S	4/22/2019 14:17	Temperature	18.56	C
MR-AP-MW-3S	4/22/2019 14:17	Turbidity	7.89	NTU
MR-AP-MW-3S	4/22/2019 14:22	Conductivity	1431.1	uS/cm
MR-AP-MW-3S	4/22/2019 14:22	DO	0.17	mg/L
MR-AP-MW-3S	4/22/2019 14:22	Depth to Water Detail	88.64	ft
MR-AP-MW-3S	4/22/2019 14:22	Oxidation Reduction Potention	-67.1	mv
MR-AP-MW-3S	4/22/2019 14:22	pH	9.2	pH
MR-AP-MW-3S	4/22/2019 14:22	Temperature	18.48	C
MR-AP-MW-3S	4/22/2019 14:22	Turbidity	7.68	NTU
MR-AP-MW-3S	4/22/2019 14:27	Conductivity	1493.7	uS/cm
MR-AP-MW-3S	4/22/2019 14:27	DO	0.16	mg/L
MR-AP-MW-3S	4/22/2019 14:27	Depth to Water Detail	88.68	ft
MR-AP-MW-3S	4/22/2019 14:27	Oxidation Reduction Potention	-67.3	mv
MR-AP-MW-3S	4/22/2019 14:27	pH	9.17	pH
MR-AP-MW-3S	4/22/2019 14:27	Temperature	18.48	C
MR-AP-MW-3S	4/22/2019 14:27	Turbidity	6.88	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-10	4/24/2019 11:19	Conductivity	2034.7	uS/cm
MR-AP-MW-10	4/24/2019 11:19	DO	0.56	mg/L
MR-AP-MW-10	4/24/2019 11:19	Depth to Water Detail	126.08	ft
MR-AP-MW-10	4/24/2019 11:19	Oxidation Reduction Potention	-64.8	mv
MR-AP-MW-10	4/24/2019 11:19	pH	6.98	pH
MR-AP-MW-10	4/24/2019 11:19	Temperature	17.87	C
MR-AP-MW-10	4/24/2019 11:19	Turbidity	3.6	NTU
MR-AP-MW-10	4/24/2019 11:24	Conductivity	2037.2	uS/cm
MR-AP-MW-10	4/24/2019 11:24	DO	0.3	mg/L
MR-AP-MW-10	4/24/2019 11:24	Depth to Water Detail	126.11	ft
MR-AP-MW-10	4/24/2019 11:24	Oxidation Reduction Potention	-57.4	mv
MR-AP-MW-10	4/24/2019 11:24	pH	6.93	pH
MR-AP-MW-10	4/24/2019 11:24	Temperature	17.65	C
MR-AP-MW-10	4/24/2019 11:24	Turbidity	2.21	NTU
MR-AP-MW-10	4/24/2019 11:29	Conductivity	2019.6	uS/cm
MR-AP-MW-10	4/24/2019 11:29	DO	0.28	mg/L
MR-AP-MW-10	4/24/2019 11:29	Depth to Water Detail	126.12	ft
MR-AP-MW-10	4/24/2019 11:29	Oxidation Reduction Potention	-54.5	mv
MR-AP-MW-10	4/24/2019 11:29	pH	6.91	pH
MR-AP-MW-10	4/24/2019 11:29	Temperature	17.63	C
MR-AP-MW-10	4/24/2019 11:29	Turbidity	1.74	NTU
MR-AP-MW-10	4/24/2019 11:34	Conductivity	2000.4	uS/cm
MR-AP-MW-10	4/24/2019 11:34	DO	0.29	mg/L
MR-AP-MW-10	4/24/2019 11:34	Depth to Water Detail	126.12	ft
MR-AP-MW-10	4/24/2019 11:34	Oxidation Reduction Potention	-51.4	mv
MR-AP-MW-10	4/24/2019 11:34	pH	6.91	pH
MR-AP-MW-10	4/24/2019 11:34	Temperature	17.65	C
MR-AP-MW-10	4/24/2019 11:34	Turbidity	0.63	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13D	4/24/2019 13:32	Conductivity	517.8	uS/cm
MR-AP-MW-13D	4/24/2019 13:32	DO	0.24	mg/L
MR-AP-MW-13D	4/24/2019 13:32	Depth to Water Detail	42.88	ft
MR-AP-MW-13D	4/24/2019 13:32	Oxidation Reduction Potention	-37.2	mv
MR-AP-MW-13D	4/24/2019 13:32	pH	6.64	pH
MR-AP-MW-13D	4/24/2019 13:32	Temperature	19.37	C
MR-AP-MW-13D	4/24/2019 13:32	Turbidity	169	NTU
MR-AP-MW-13D	4/24/2019 13:37	Conductivity	517.6	uS/cm
MR-AP-MW-13D	4/24/2019 13:37	DO	0.19	mg/L
MR-AP-MW-13D	4/24/2019 13:37	Depth to Water Detail	43.74	ft
MR-AP-MW-13D	4/24/2019 13:37	Oxidation Reduction Potention	-37.1	mv
MR-AP-MW-13D	4/24/2019 13:37	pH	6.64	pH
MR-AP-MW-13D	4/24/2019 13:37	Temperature	19.27	C
MR-AP-MW-13D	4/24/2019 13:37	Turbidity	41.6	NTU
MR-AP-MW-13D	4/24/2019 13:42	Conductivity	514.9	uS/cm
MR-AP-MW-13D	4/24/2019 13:42	DO	0.18	mg/L
MR-AP-MW-13D	4/24/2019 13:42	Depth to Water Detail	44.55	ft
MR-AP-MW-13D	4/24/2019 13:42	Oxidation Reduction Potention	-37.1	mv
MR-AP-MW-13D	4/24/2019 13:42	pH	6.65	pH
MR-AP-MW-13D	4/24/2019 13:42	Temperature	19.19	C
MR-AP-MW-13D	4/24/2019 13:42	Turbidity	9.77	NTU
MR-AP-MW-13D	4/24/2019 13:47	Conductivity	513.4	uS/cm
MR-AP-MW-13D	4/24/2019 13:47	DO	0.18	mg/L
MR-AP-MW-13D	4/24/2019 13:47	Depth to Water Detail	45.1	ft
MR-AP-MW-13D	4/24/2019 13:47	Oxidation Reduction Potention	-36.8	mv
MR-AP-MW-13D	4/24/2019 13:47	pH	6.66	pH
MR-AP-MW-13D	4/24/2019 13:47	Temperature	19.17	C
MR-AP-MW-13D	4/24/2019 13:47	Turbidity	18.8	NTU
MR-AP-MW-13D	4/24/2019 13:52	Conductivity	514.7	uS/cm
MR-AP-MW-13D	4/24/2019 13:52	DO	0.18	mg/L
MR-AP-MW-13D	4/24/2019 13:52	Depth to Water Detail	45.5	ft
MR-AP-MW-13D	4/24/2019 13:52	Oxidation Reduction Potention	-36.1	mv
MR-AP-MW-13D	4/24/2019 13:52	pH	6.66	pH
MR-AP-MW-13D	4/24/2019 13:52	Temperature	19.18	C
MR-AP-MW-13D	4/24/2019 13:52	Turbidity	28.3	NTU
MR-AP-MW-13D	4/24/2019 13:57	Conductivity	514.6	uS/cm
MR-AP-MW-13D	4/24/2019 13:57	DO	0.19	mg/L
MR-AP-MW-13D	4/24/2019 13:57	Depth to Water Detail	45.71	ft
MR-AP-MW-13D	4/24/2019 13:57	Oxidation Reduction Potention	-35.5	mv
MR-AP-MW-13D	4/24/2019 13:57	pH	6.66	pH
MR-AP-MW-13D	4/24/2019 13:57	Temperature	19.22	C
MR-AP-MW-13D	4/24/2019 13:57	Turbidity	37.1	NTU
MR-AP-MW-13D	4/24/2019 14:02	Conductivity	512.7	uS/cm
MR-AP-MW-13D	4/24/2019 14:02	DO	0.19	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13D	4/24/2019 14:02	Depth to Water Detail	45.98	ft
MR-AP-MW-13D	4/24/2019 14:02	Oxidation Reduction Potention	-35.1	mv
MR-AP-MW-13D	4/24/2019 14:02	pH	6.67	pH
MR-AP-MW-13D	4/24/2019 14:02	Temperature	19.24	C
MR-AP-MW-13D	4/24/2019 14:02	Turbidity	12.7	NTU
MR-AP-MW-13D	4/24/2019 14:07	Conductivity	512.5	uS/cm
MR-AP-MW-13D	4/24/2019 14:07	DO	0.19	mg/L
MR-AP-MW-13D	4/24/2019 14:07	Depth to Water Detail	46.21	ft
MR-AP-MW-13D	4/24/2019 14:07	Oxidation Reduction Potention	-34.8	mv
MR-AP-MW-13D	4/24/2019 14:07	pH	6.67	pH
MR-AP-MW-13D	4/24/2019 14:07	Temperature	19.24	C
MR-AP-MW-13D	4/24/2019 14:07	Turbidity	5.96	NTU
MR-AP-MW-13D	4/24/2019 14:12	Conductivity	510.9	uS/cm
MR-AP-MW-13D	4/24/2019 14:12	DO	0.19	mg/L
MR-AP-MW-13D	4/24/2019 14:12	Depth to Water Detail	46.35	ft
MR-AP-MW-13D	4/24/2019 14:12	Oxidation Reduction Potention	-34.6	mv
MR-AP-MW-13D	4/24/2019 14:12	pH	6.67	pH
MR-AP-MW-13D	4/24/2019 14:12	Temperature	19.35	C
MR-AP-MW-13D	4/24/2019 14:12	Turbidity	9.49	NTU
MR-AP-MW-13D	4/24/2019 14:17	Conductivity	511	uS/cm
MR-AP-MW-13D	4/24/2019 14:17	DO	0.18	mg/L
MR-AP-MW-13D	4/24/2019 14:17	Depth to Water Detail	46.48	ft
MR-AP-MW-13D	4/24/2019 14:17	Oxidation Reduction Potention	-33.9	mv
MR-AP-MW-13D	4/24/2019 14:17	pH	6.67	pH
MR-AP-MW-13D	4/24/2019 14:17	Temperature	19.37	C
MR-AP-MW-13D	4/24/2019 14:17	Turbidity	5.68	NTU
MR-AP-MW-13D	4/24/2019 14:22	Conductivity	511	uS/cm
MR-AP-MW-13D	4/24/2019 14:22	DO	0.18	mg/L
MR-AP-MW-13D	4/24/2019 14:22	Depth to Water Detail	46.6	ft
MR-AP-MW-13D	4/24/2019 14:22	Oxidation Reduction Potention	-33.5	mv
MR-AP-MW-13D	4/24/2019 14:22	pH	6.67	pH
MR-AP-MW-13D	4/24/2019 14:22	Temperature	19.4	C
MR-AP-MW-13D	4/24/2019 14:22	Turbidity	3.8	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13S	4/24/2019 12:43	Conductivity	423.9	uS/cm
MR-AP-MW-13S	4/24/2019 12:43	DO	0.25	mg/L
MR-AP-MW-13S	4/24/2019 12:43	Depth to Water Detail	16.44	ft
MR-AP-MW-13S	4/24/2019 12:43	Oxidation Reduction Potention	46.4	mv
MR-AP-MW-13S	4/24/2019 12:43	pH	5.65	pH
MR-AP-MW-13S	4/24/2019 12:43	Temperature	18.52	C
MR-AP-MW-13S	4/24/2019 12:43	Turbidity	17.1	NTU
MR-AP-MW-13S	4/24/2019 12:48	Conductivity	424.9	uS/cm
MR-AP-MW-13S	4/24/2019 12:48	DO	0.32	mg/L
MR-AP-MW-13S	4/24/2019 12:48	Depth to Water Detail	16.62	ft
MR-AP-MW-13S	4/24/2019 12:48	Oxidation Reduction Potention	46	mv
MR-AP-MW-13S	4/24/2019 12:48	pH	5.65	pH
MR-AP-MW-13S	4/24/2019 12:48	Temperature	18.47	C
MR-AP-MW-13S	4/24/2019 12:48	Turbidity	12.67	NTU
MR-AP-MW-13S	4/24/2019 12:53	Conductivity	426.4	uS/cm
MR-AP-MW-13S	4/24/2019 12:53	DO	0.27	mg/L
MR-AP-MW-13S	4/24/2019 12:53	Depth to Water Detail	16.8	ft
MR-AP-MW-13S	4/24/2019 12:53	Oxidation Reduction Potention	45.1	mv
MR-AP-MW-13S	4/24/2019 12:53	pH	5.64	pH
MR-AP-MW-13S	4/24/2019 12:53	Temperature	18.46	C
MR-AP-MW-13S	4/24/2019 12:53	Turbidity	9.82	NTU
MR-AP-MW-13S	4/24/2019 12:58	Conductivity	426.5	uS/cm
MR-AP-MW-13S	4/24/2019 12:58	DO	0.24	mg/L
MR-AP-MW-13S	4/24/2019 12:58	Depth to Water Detail	16.9	ft
MR-AP-MW-13S	4/24/2019 12:58	Oxidation Reduction Potention	44.3	mv
MR-AP-MW-13S	4/24/2019 12:58	pH	5.65	pH
MR-AP-MW-13S	4/24/2019 12:58	Temperature	18.5	C
MR-AP-MW-13S	4/24/2019 12:58	Turbidity	8.11	NTU
MR-AP-MW-13S	4/24/2019 13:03	Conductivity	428.2	uS/cm
MR-AP-MW-13S	4/24/2019 13:03	DO	0.23	mg/L
MR-AP-MW-13S	4/24/2019 13:03	Depth to Water Detail	16.97	ft
MR-AP-MW-13S	4/24/2019 13:03	Oxidation Reduction Potention	43.8	mv
MR-AP-MW-13S	4/24/2019 13:03	pH	5.65	pH
MR-AP-MW-13S	4/24/2019 13:03	Temperature	18.44	C
MR-AP-MW-13S	4/24/2019 13:03	Turbidity	4.96	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-14	4/24/2019 15:10	Conductivity	334.6	uS/cm
MR-AP-MW-14	4/24/2019 15:10	DO	0.21	mg/L
MR-AP-MW-14	4/24/2019 15:10	Depth to Water Detail	20.66	ft
MR-AP-MW-14	4/24/2019 15:10	Oxidation Reduction Potention	8.4	mv
MR-AP-MW-14	4/24/2019 15:10	pH	6.42	pH
MR-AP-MW-14	4/24/2019 15:10	Temperature	19.07	C
MR-AP-MW-14	4/24/2019 15:10	Turbidity	2.25	NTU
MR-AP-MW-14	4/24/2019 15:15	Conductivity	335.7	uS/cm
MR-AP-MW-14	4/24/2019 15:15	DO	0.26	mg/L
MR-AP-MW-14	4/24/2019 15:15	Depth to Water Detail	20.75	ft
MR-AP-MW-14	4/24/2019 15:15	Oxidation Reduction Potention	7.5	mv
MR-AP-MW-14	4/24/2019 15:15	pH	6.43	pH
MR-AP-MW-14	4/24/2019 15:15	Temperature	18.88	C
MR-AP-MW-14	4/24/2019 15:15	Turbidity	2.09	NTU
MR-AP-MW-14	4/24/2019 15:20	Conductivity	338.2	uS/cm
MR-AP-MW-14	4/24/2019 15:20	DO	0.38	mg/L
MR-AP-MW-14	4/24/2019 15:20	Depth to Water Detail	20.86	ft
MR-AP-MW-14	4/24/2019 15:20	Oxidation Reduction Potention	6	mv
MR-AP-MW-14	4/24/2019 15:20	pH	6.44	pH
MR-AP-MW-14	4/24/2019 15:20	Temperature	18.94	C
MR-AP-MW-14	4/24/2019 15:20	Turbidity	1.71	NTU
MR-AP-MW-14	4/24/2019 15:25	Conductivity	338.4	uS/cm
MR-AP-MW-14	4/24/2019 15:25	DO	0.38	mg/L
MR-AP-MW-14	4/24/2019 15:25	Depth to Water Detail	20.96	ft
MR-AP-MW-14	4/24/2019 15:25	Oxidation Reduction Potention	5.5	mv
MR-AP-MW-14	4/24/2019 15:25	pH	6.44	pH
MR-AP-MW-14	4/24/2019 15:25	Temperature	18.79	C
MR-AP-MW-14	4/24/2019 15:25	Turbidity	2.2	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-15	4/24/2019 9:46	Conductivity	386.8	uS/cm
MR-AP-MW-15	4/24/2019 9:46	DO	0.15	mg/L
MR-AP-MW-15	4/24/2019 9:46	Depth to Water Detail	13.94	ft
MR-AP-MW-15	4/24/2019 9:46	Oxidation Reduction Potention	-40.4	mv
MR-AP-MW-15	4/24/2019 9:46	pH	6.42	pH
MR-AP-MW-15	4/24/2019 9:46	Temperature	19.06	C
MR-AP-MW-15	4/24/2019 9:46	Turbidity	140	NTU
MR-AP-MW-15	4/24/2019 9:51	Conductivity	381.1	uS/cm
MR-AP-MW-15	4/24/2019 9:51	DO	0.14	mg/L
MR-AP-MW-15	4/24/2019 9:51	Depth to Water Detail	14.02	ft
MR-AP-MW-15	4/24/2019 9:51	Oxidation Reduction Potention	-42.4	mv
MR-AP-MW-15	4/24/2019 9:51	pH	6.44	pH
MR-AP-MW-15	4/24/2019 9:51	Temperature	19.06	C
MR-AP-MW-15	4/24/2019 9:51	Turbidity	105.7	NTU
MR-AP-MW-15	4/24/2019 9:56	Conductivity	378.4	uS/cm
MR-AP-MW-15	4/24/2019 9:56	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 9:56	Depth to Water Detail	14.08	ft
MR-AP-MW-15	4/24/2019 9:56	Oxidation Reduction Potention	-41.4	mv
MR-AP-MW-15	4/24/2019 9:56	pH	6.44	pH
MR-AP-MW-15	4/24/2019 9:56	Temperature	19.06	C
MR-AP-MW-15	4/24/2019 9:56	Turbidity	84.1	NTU
MR-AP-MW-15	4/24/2019 10:01	Conductivity	378.9	uS/cm
MR-AP-MW-15	4/24/2019 10:01	DO	0.12	mg/L
MR-AP-MW-15	4/24/2019 10:01	Depth to Water Detail	14.14	ft
MR-AP-MW-15	4/24/2019 10:01	Oxidation Reduction Potention	-41.4	mv
MR-AP-MW-15	4/24/2019 10:01	pH	6.45	pH
MR-AP-MW-15	4/24/2019 10:01	Temperature	19.08	C
MR-AP-MW-15	4/24/2019 10:01	Turbidity	47.5	NTU
MR-AP-MW-15	4/24/2019 10:06	Conductivity	381.4	uS/cm
MR-AP-MW-15	4/24/2019 10:06	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 10:06	Depth to Water Detail	14.21	ft
MR-AP-MW-15	4/24/2019 10:06	Oxidation Reduction Potention	-40.2	mv
MR-AP-MW-15	4/24/2019 10:06	pH	6.45	pH
MR-AP-MW-15	4/24/2019 10:06	Temperature	19.09	C
MR-AP-MW-15	4/24/2019 10:06	Turbidity	31.6	NTU
MR-AP-MW-15	4/24/2019 10:11	Conductivity	379.4	uS/cm
MR-AP-MW-15	4/24/2019 10:11	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 10:11	Depth to Water Detail	14.24	ft
MR-AP-MW-15	4/24/2019 10:11	Oxidation Reduction Potention	-39.9	mv
MR-AP-MW-15	4/24/2019 10:11	pH	6.45	pH
MR-AP-MW-15	4/24/2019 10:11	Temperature	19.1	C
MR-AP-MW-15	4/24/2019 10:11	Turbidity	28.1	NTU
MR-AP-MW-15	4/24/2019 10:16	Conductivity	381.3	uS/cm
MR-AP-MW-15	4/24/2019 10:16	DO	0.13	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-15	4/24/2019 10:16	Depth to Water Detail	14.25	ft
MR-AP-MW-15	4/24/2019 10:16	Oxidation Reduction Potention	-38.9	mv
MR-AP-MW-15	4/24/2019 10:16	pH	6.45	pH
MR-AP-MW-15	4/24/2019 10:16	Temperature	19.1	C
MR-AP-MW-15	4/24/2019 10:16	Turbidity	20.1	NTU
MR-AP-MW-15	4/24/2019 10:21	Conductivity	384.1	uS/cm
MR-AP-MW-15	4/24/2019 10:21	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 10:21	Depth to Water Detail	14.32	ft
MR-AP-MW-15	4/24/2019 10:21	Oxidation Reduction Potention	-37.5	mv
MR-AP-MW-15	4/24/2019 10:21	pH	6.45	pH
MR-AP-MW-15	4/24/2019 10:21	Temperature	19.15	C
MR-AP-MW-15	4/24/2019 10:21	Turbidity	12.8	NTU
MR-AP-MW-15	4/24/2019 10:26	Conductivity	379.9	uS/cm
MR-AP-MW-15	4/24/2019 10:26	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 10:26	Depth to Water Detail	14.34	ft
MR-AP-MW-15	4/24/2019 10:26	Oxidation Reduction Potention	-37.5	mv
MR-AP-MW-15	4/24/2019 10:26	pH	6.45	pH
MR-AP-MW-15	4/24/2019 10:26	Temperature	19.17	C
MR-AP-MW-15	4/24/2019 10:26	Turbidity	13.1	NTU
MR-AP-MW-15	4/24/2019 10:31	Conductivity	382.1	uS/cm
MR-AP-MW-15	4/24/2019 10:31	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 10:31	Depth to Water Detail	14.35	ft
MR-AP-MW-15	4/24/2019 10:31	Oxidation Reduction Potention	-37.2	mv
MR-AP-MW-15	4/24/2019 10:31	pH	6.46	pH
MR-AP-MW-15	4/24/2019 10:31	Temperature	19.19	C
MR-AP-MW-15	4/24/2019 10:31	Turbidity	11.6	NTU
MR-AP-MW-15	4/24/2019 10:36	Conductivity	383.3	uS/cm
MR-AP-MW-15	4/24/2019 10:36	DO	0.13	mg/L
MR-AP-MW-15	4/24/2019 10:36	Depth to Water Detail	14.36	ft
MR-AP-MW-15	4/24/2019 10:36	Oxidation Reduction Potention	-36.7	mv
MR-AP-MW-15	4/24/2019 10:36	pH	6.46	pH
MR-AP-MW-15	4/24/2019 10:36	Temperature	19.24	C
MR-AP-MW-15	4/24/2019 10:36	Turbidity	9.9	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-16	4/24/2019 8:20	Conductivity	781.4	uS/cm
MR-AP-MW-16	4/24/2019 8:20	DO	0.23	mg/L
MR-AP-MW-16	4/24/2019 8:20	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:20	Oxidation Reduction Potention	104.7	mv
MR-AP-MW-16	4/24/2019 8:20	pH	5.95	pH
MR-AP-MW-16	4/24/2019 8:20	Temperature	17.9	C
MR-AP-MW-16	4/24/2019 8:20	Turbidity	0.75	NTU
MR-AP-MW-16	4/24/2019 8:25	Conductivity	821.3	uS/cm
MR-AP-MW-16	4/24/2019 8:25	DO	0.32	mg/L
MR-AP-MW-16	4/24/2019 8:25	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:25	Oxidation Reduction Potention	105.8	mv
MR-AP-MW-16	4/24/2019 8:25	pH	5.92	pH
MR-AP-MW-16	4/24/2019 8:25	Temperature	17.86	C
MR-AP-MW-16	4/24/2019 8:25	Turbidity	0.85	NTU
MR-AP-MW-16	4/24/2019 8:30	Conductivity	856.1	uS/cm
MR-AP-MW-16	4/24/2019 8:30	DO	0.54	mg/L
MR-AP-MW-16	4/24/2019 8:30	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:30	Oxidation Reduction Potention	105.7	mv
MR-AP-MW-16	4/24/2019 8:30	pH	5.93	pH
MR-AP-MW-16	4/24/2019 8:30	Temperature	17.86	C
MR-AP-MW-16	4/24/2019 8:30	Turbidity	0.18	NTU
MR-AP-MW-16	4/24/2019 8:35	Conductivity	867.9	uS/cm
MR-AP-MW-16	4/24/2019 8:35	DO	0.79	mg/L
MR-AP-MW-16	4/24/2019 8:35	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:35	Oxidation Reduction Potention	102.2	mv
MR-AP-MW-16	4/24/2019 8:35	pH	5.96	pH
MR-AP-MW-16	4/24/2019 8:35	Temperature	17.88	C
MR-AP-MW-16	4/24/2019 8:35	Turbidity	0.2	NTU
MR-AP-MW-16	4/24/2019 8:40	Conductivity	885	uS/cm
MR-AP-MW-16	4/24/2019 8:40	DO	1.09	mg/L
MR-AP-MW-16	4/24/2019 8:40	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:40	Oxidation Reduction Potention	101.6	mv
MR-AP-MW-16	4/24/2019 8:40	pH	5.97	pH
MR-AP-MW-16	4/24/2019 8:40	Temperature	17.86	C
MR-AP-MW-16	4/24/2019 8:40	Turbidity	0.24	NTU
MR-AP-MW-16	4/24/2019 8:45	Conductivity	893.7	uS/cm
MR-AP-MW-16	4/24/2019 8:45	DO	1.26	mg/L
MR-AP-MW-16	4/24/2019 8:45	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:45	Oxidation Reduction Potention	100.8	mv
MR-AP-MW-16	4/24/2019 8:45	pH	5.99	pH
MR-AP-MW-16	4/24/2019 8:45	Temperature	17.89	C
MR-AP-MW-16	4/24/2019 8:45	Turbidity	0.07	NTU
MR-AP-MW-16	4/24/2019 8:50	Conductivity	896.3	uS/cm
MR-AP-MW-16	4/24/2019 8:50	DO	1.3	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-16	4/24/2019 8:50	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:50	Oxidation Reduction Potention	99	mv
MR-AP-MW-16	4/24/2019 8:50	pH	6	pH
MR-AP-MW-16	4/24/2019 8:50	Temperature	17.9	C
MR-AP-MW-16	4/24/2019 8:50	Turbidity	0.16	NTU
MR-AP-MW-16	4/24/2019 8:55	Conductivity	900	uS/cm
MR-AP-MW-16	4/24/2019 8:55	DO	1.4	mg/L
MR-AP-MW-16	4/24/2019 8:55	Depth to Water Detail	28.22	ft
MR-AP-MW-16	4/24/2019 8:55	Oxidation Reduction Potention	98.2	mv
MR-AP-MW-16	4/24/2019 8:55	pH	6.01	pH
MR-AP-MW-16	4/24/2019 8:55	Temperature	17.92	C
MR-AP-MW-16	4/24/2019 8:55	Turbidity	0.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-1	5/1/2019 9:05	Conductivity	3399.3	uS/cm
MR-AP-MW-1	5/1/2019 9:05	DO	0.34	mg/L
MR-AP-MW-1	5/1/2019 9:05	Depth to Water Detail	199.88	ft
MR-AP-MW-1	5/1/2019 9:05	Oxidation Reduction Potention	-154.7	mv
MR-AP-MW-1	5/1/2019 9:05	pH	12.07	pH
MR-AP-MW-1	5/1/2019 9:05	Temperature	18.44	C
MR-AP-MW-1	5/1/2019 9:05	Turbidity	2.2	NTU
MR-AP-MW-1	5/1/2019 9:10	Conductivity	3289.9	uS/cm
MR-AP-MW-1	5/1/2019 9:10	DO	0.32	mg/L
MR-AP-MW-1	5/1/2019 9:10	Depth to Water Detail	199.9	ft
MR-AP-MW-1	5/1/2019 9:10	Oxidation Reduction Potention	-162.3	mv
MR-AP-MW-1	5/1/2019 9:10	pH	12.06	pH
MR-AP-MW-1	5/1/2019 9:10	Temperature	18.21	C
MR-AP-MW-1	5/1/2019 9:10	Turbidity	3.14	NTU
MR-AP-MW-1	5/1/2019 9:15	Conductivity	2979.9	uS/cm
MR-AP-MW-1	5/1/2019 9:15	DO	0.3	mg/L
MR-AP-MW-1	5/1/2019 9:15	Depth to Water Detail	200.05	ft
MR-AP-MW-1	5/1/2019 9:15	Oxidation Reduction Potention	-159.9	mv
MR-AP-MW-1	5/1/2019 9:15	pH	12.03	pH
MR-AP-MW-1	5/1/2019 9:15	Temperature	18.05	C
MR-AP-MW-1	5/1/2019 9:15	Turbidity	2.67	NTU
MR-AP-MW-1	5/1/2019 9:20	Conductivity	2687	uS/cm
MR-AP-MW-1	5/1/2019 9:20	DO	0.25	mg/L
MR-AP-MW-1	5/1/2019 9:20	Depth to Water Detail	200.4	ft
MR-AP-MW-1	5/1/2019 9:20	Oxidation Reduction Potention	-156.8	mv
MR-AP-MW-1	5/1/2019 9:20	pH	12	pH
MR-AP-MW-1	5/1/2019 9:20	Temperature	17.98	C
MR-AP-MW-1	5/1/2019 9:20	Turbidity	4.41	NTU
MR-AP-MW-1	5/1/2019 9:25	Conductivity	2396.3	uS/cm
MR-AP-MW-1	5/1/2019 9:25	DO	0.3	mg/L
MR-AP-MW-1	5/1/2019 9:25	Depth to Water Detail	200.32	ft
MR-AP-MW-1	5/1/2019 9:25	Oxidation Reduction Potention	-151.2	mv
MR-AP-MW-1	5/1/2019 9:25	pH	11.94	pH
MR-AP-MW-1	5/1/2019 9:25	Temperature	18.23	C
MR-AP-MW-1	5/1/2019 9:25	Turbidity	10.04	NTU
MR-AP-MW-1	5/1/2019 9:30	Conductivity	1991.5	uS/cm
MR-AP-MW-1	5/1/2019 9:30	DO	0.22	mg/L
MR-AP-MW-1	5/1/2019 9:30	Depth to Water Detail	200.71	ft
MR-AP-MW-1	5/1/2019 9:30	Oxidation Reduction Potention	-141	mv
MR-AP-MW-1	5/1/2019 9:30	pH	11.86	pH
MR-AP-MW-1	5/1/2019 9:30	Temperature	18.12	C
MR-AP-MW-1	5/1/2019 9:30	Turbidity	11	NTU
MR-AP-MW-1	5/1/2019 9:35	Conductivity	1879.7	uS/cm
MR-AP-MW-1	5/1/2019 9:35	DO	0.28	mg/L

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Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-1	5/1/2019 9:35	Depth to Water Detail	200.65	ft
MR-AP-MW-1	5/1/2019 9:35	Oxidation Reduction Potention	-137.2	mv
MR-AP-MW-1	5/1/2019 9:35	pH	11.81	pH
MR-AP-MW-1	5/1/2019 9:35	Temperature	18.52	C
MR-AP-MW-1	5/1/2019 9:35	Turbidity	18.9	NTU
MR-AP-MW-1	5/1/2019 9:40	Conductivity	1590	uS/cm
MR-AP-MW-1	5/1/2019 9:40	DO	0.19	mg/L
MR-AP-MW-1	5/1/2019 9:40	Depth to Water Detail	201.01	ft
MR-AP-MW-1	5/1/2019 9:40	Oxidation Reduction Potention	-126.1	mv
MR-AP-MW-1	5/1/2019 9:40	pH	11.72	pH
MR-AP-MW-1	5/1/2019 9:40	Temperature	18.3	C
MR-AP-MW-1	5/1/2019 9:40	Turbidity	14.2	NTU
MR-AP-MW-1	5/1/2019 9:45	Conductivity	1547.4	uS/cm
MR-AP-MW-1	5/1/2019 9:45	DO	0.24	mg/L
MR-AP-MW-1	5/1/2019 9:45	Depth to Water Detail	200.85	ft
MR-AP-MW-1	5/1/2019 9:45	Oxidation Reduction Potention	-124.6	mv
MR-AP-MW-1	5/1/2019 9:45	pH	11.65	pH
MR-AP-MW-1	5/1/2019 9:45	Temperature	18.79	C
MR-AP-MW-1	5/1/2019 9:45	Turbidity	13	NTU
MR-AP-MW-1	5/1/2019 9:50	Conductivity	1269.4	uS/cm
MR-AP-MW-1	5/1/2019 9:50	DO	0.16	mg/L
MR-AP-MW-1	5/1/2019 9:50	Depth to Water Detail	201.22	ft
MR-AP-MW-1	5/1/2019 9:50	Oxidation Reduction Potention	-113.7	mv
MR-AP-MW-1	5/1/2019 9:50	pH	11.5	pH
MR-AP-MW-1	5/1/2019 9:50	Temperature	18.53	C
MR-AP-MW-1	5/1/2019 9:50	Turbidity	13.1	NTU
MR-AP-MW-1	5/1/2019 9:55	Conductivity	1258.9	uS/cm
MR-AP-MW-1	5/1/2019 9:55	DO	0.17	mg/L
MR-AP-MW-1	5/1/2019 9:55	Depth to Water Detail	201.22	ft
MR-AP-MW-1	5/1/2019 9:55	Oxidation Reduction Potention	-115.2	mv
MR-AP-MW-1	5/1/2019 9:55	pH	11.47	pH
MR-AP-MW-1	5/1/2019 9:55	Temperature	18.9	C
MR-AP-MW-1	5/1/2019 9:55	Turbidity	13.2	NTU
MR-AP-MW-1	5/1/2019 10:00	Conductivity	1121	uS/cm
MR-AP-MW-1	5/1/2019 10:00	DO	0.12	mg/L
MR-AP-MW-1	5/1/2019 10:00	Depth to Water Detail	201.23	ft
MR-AP-MW-1	5/1/2019 10:00	Oxidation Reduction Potention	-110.4	mv
MR-AP-MW-1	5/1/2019 10:00	pH	11.3	pH
MR-AP-MW-1	5/1/2019 10:00	Temperature	18.76	C
MR-AP-MW-1	5/1/2019 10:00	Turbidity	12.5	NTU
MR-AP-MW-1	5/1/2019 10:05	Conductivity	1225.8	uS/cm
MR-AP-MW-1	5/1/2019 10:05	DO	0.11	mg/L
MR-AP-MW-1	5/1/2019 10:05	Depth to Water Detail	201.3	ft
MR-AP-MW-1	5/1/2019 10:05	Oxidation Reduction Potention	-114	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-1	5/1/2019 10:05	pH	11.43	pH
MR-AP-MW-1	5/1/2019 10:05	Temperature	18.99	C
MR-AP-MW-1	5/1/2019 10:05	Turbidity	13.2	NTU
MR-AP-MW-1	5/1/2019 10:10	Conductivity	1065.2	uS/cm
MR-AP-MW-1	5/1/2019 10:10	DO	0.1	mg/L
MR-AP-MW-1	5/1/2019 10:10	Depth to Water Detail	201.09	ft
MR-AP-MW-1	5/1/2019 10:10	Oxidation Reduction Potential	-109.2	mv
MR-AP-MW-1	5/1/2019 10:10	pH	11.15	pH
MR-AP-MW-1	5/1/2019 10:10	Temperature	19.09	C
MR-AP-MW-1	5/1/2019 10:10	Turbidity	11.3	NTU
MR-AP-MW-1	5/1/2019 10:16	Conductivity	1074.5	uS/cm
MR-AP-MW-1	5/1/2019 10:16	DO	0.07	mg/L
MR-AP-MW-1	5/1/2019 10:16	Depth to Water Detail	201.37	ft
MR-AP-MW-1	5/1/2019 10:16	Oxidation Reduction Potential	-108.2	mv
MR-AP-MW-1	5/1/2019 10:16	pH	11.16	pH
MR-AP-MW-1	5/1/2019 10:16	Temperature	19.01	C
MR-AP-MW-1	5/1/2019 10:16	Turbidity	12.2	NTU
MR-AP-MW-1	5/1/2019 10:21	Conductivity	1047.2	uS/cm
MR-AP-MW-1	5/1/2019 10:21	DO	0.12	mg/L
MR-AP-MW-1	5/1/2019 10:21	Depth to Water Detail	201.38	ft
MR-AP-MW-1	5/1/2019 10:21	Oxidation Reduction Potential	-109.6	mv
MR-AP-MW-1	5/1/2019 10:21	pH	11.01	pH
MR-AP-MW-1	5/1/2019 10:21	Temperature	19.87	C
MR-AP-MW-1	5/1/2019 10:21	Turbidity	9.82	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-2	5/1/2019 11:22	Conductivity	1153.4	uS/cm
MR-AP-MW-2	5/1/2019 11:22	DO	0.35	mg/L
MR-AP-MW-2	5/1/2019 11:22	Depth to Water Detail	203.42	ft
MR-AP-MW-2	5/1/2019 11:22	Oxidation Reduction Potention	-96.9	mv
MR-AP-MW-2	5/1/2019 11:22	pH	6.79	pH
MR-AP-MW-2	5/1/2019 11:22	Temperature	19.71	C
MR-AP-MW-2	5/1/2019 11:22	Turbidity	2.19	NTU
MR-AP-MW-2	5/1/2019 11:27	Conductivity	1515.7	uS/cm
MR-AP-MW-2	5/1/2019 11:27	DO	0.44	mg/L
MR-AP-MW-2	5/1/2019 11:27	Depth to Water Detail	203.45	ft
MR-AP-MW-2	5/1/2019 11:27	Oxidation Reduction Potention	-96.2	mv
MR-AP-MW-2	5/1/2019 11:27	pH	6.6	pH
MR-AP-MW-2	5/1/2019 11:27	Temperature	19.84	C
MR-AP-MW-2	5/1/2019 11:27	Turbidity	2.25	NTU
MR-AP-MW-2	5/1/2019 11:32	Conductivity	2121.3	uS/cm
MR-AP-MW-2	5/1/2019 11:32	DO	0.35	mg/L
MR-AP-MW-2	5/1/2019 11:32	Depth to Water Detail	203.5	ft
MR-AP-MW-2	5/1/2019 11:32	Oxidation Reduction Potention	-82.9	mv
MR-AP-MW-2	5/1/2019 11:32	pH	6.44	pH
MR-AP-MW-2	5/1/2019 11:32	Temperature	19.88	C
MR-AP-MW-2	5/1/2019 11:32	Turbidity	1.94	NTU
MR-AP-MW-2	5/1/2019 11:37	Conductivity	2489.8	uS/cm
MR-AP-MW-2	5/1/2019 11:37	DO	0.35	mg/L
MR-AP-MW-2	5/1/2019 11:37	Depth to Water Detail	203.68	ft
MR-AP-MW-2	5/1/2019 11:37	Oxidation Reduction Potention	-86.4	mv
MR-AP-MW-2	5/1/2019 11:37	pH	6.39	pH
MR-AP-MW-2	5/1/2019 11:37	Temperature	19.61	C
MR-AP-MW-2	5/1/2019 11:37	Turbidity	1.3	NTU
MR-AP-MW-2	5/1/2019 11:42	Conductivity	2357.1	uS/cm
MR-AP-MW-2	5/1/2019 11:42	DO	0.45	mg/L
MR-AP-MW-2	5/1/2019 11:42	Depth to Water Detail	203.4	ft
MR-AP-MW-2	5/1/2019 11:42	Oxidation Reduction Potention	-85.6	mv
MR-AP-MW-2	5/1/2019 11:42	pH	6.42	pH
MR-AP-MW-2	5/1/2019 11:42	Temperature	20.42	C
MR-AP-MW-2	5/1/2019 11:42	Turbidity	1.01	NTU
MR-AP-MW-2	5/1/2019 11:47	Conductivity	2928.4	uS/cm
MR-AP-MW-2	5/1/2019 11:47	DO	0.32	mg/L
MR-AP-MW-2	5/1/2019 11:47	Depth to Water Detail	203.6	ft
MR-AP-MW-2	5/1/2019 11:47	Oxidation Reduction Potention	-69.2	mv
MR-AP-MW-2	5/1/2019 11:47	pH	6.28	pH
MR-AP-MW-2	5/1/2019 11:47	Temperature	19.46	C
MR-AP-MW-2	5/1/2019 11:47	Turbidity	0.56	NTU
MR-AP-MW-2	5/1/2019 11:52	Conductivity	2382.6	uS/cm
MR-AP-MW-2	5/1/2019 11:52	DO	0.48	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-2	5/1/2019 11:52	Depth to Water Detail	203.45	ft
MR-AP-MW-2	5/1/2019 11:52	Oxidation Reduction Potention	-84.4	mv
MR-AP-MW-2	5/1/2019 11:52	pH	6.39	pH
MR-AP-MW-2	5/1/2019 11:52	Temperature	20.48	C
MR-AP-MW-2	5/1/2019 11:52	Turbidity	0.97	NTU
MR-AP-MW-2	5/1/2019 11:57	Conductivity	2598.2	uS/cm
MR-AP-MW-2	5/1/2019 11:57	DO	0.55	mg/L
MR-AP-MW-2	5/1/2019 11:57	Depth to Water Detail	203.4	ft
MR-AP-MW-2	5/1/2019 11:57	Oxidation Reduction Potention	-73.2	mv
MR-AP-MW-2	5/1/2019 11:57	pH	6.31	pH
MR-AP-MW-2	5/1/2019 11:57	Temperature	20.97	C
MR-AP-MW-2	5/1/2019 11:57	Turbidity	0.83	NTU
MR-AP-MW-2	5/1/2019 12:02	Conductivity	2924.6	uS/cm
MR-AP-MW-2	5/1/2019 12:02	DO	0.71	mg/L
MR-AP-MW-2	5/1/2019 12:02	Depth to Water Detail	203.6	ft
MR-AP-MW-2	5/1/2019 12:02	Oxidation Reduction Potention	-56.7	mv
MR-AP-MW-2	5/1/2019 12:02	pH	6.19	pH
MR-AP-MW-2	5/1/2019 12:02	Temperature	21.79	C
MR-AP-MW-2	5/1/2019 12:02	Turbidity	0.52	NTU
MR-AP-MW-2	5/1/2019 12:07	Conductivity	2944.8	uS/cm
MR-AP-MW-2	5/1/2019 12:07	DO	0.77	mg/L
MR-AP-MW-2	5/1/2019 12:07	Depth to Water Detail	203.64	ft
MR-AP-MW-2	5/1/2019 12:07	Oxidation Reduction Potention	-51.5	mv
MR-AP-MW-2	5/1/2019 12:07	pH	6.15	pH
MR-AP-MW-2	5/1/2019 12:07	Temperature	22.69	C
MR-AP-MW-2	5/1/2019 12:07	Turbidity	0.45	NTU
MR-AP-MW-2	5/1/2019 12:12	Conductivity	3157.1	uS/cm
MR-AP-MW-2	5/1/2019 12:12	DO	0.58	mg/L
MR-AP-MW-2	5/1/2019 12:12	Depth to Water Detail	203.5	ft
MR-AP-MW-2	5/1/2019 12:12	Oxidation Reduction Potention	-40.6	mv
MR-AP-MW-2	5/1/2019 12:12	pH	6.07	pH
MR-AP-MW-2	5/1/2019 12:12	Temperature	21.11	C
MR-AP-MW-2	5/1/2019 12:12	Turbidity	0.51	NTU
MR-AP-MW-2	5/1/2019 12:17	Conductivity	3203	uS/cm
MR-AP-MW-2	5/1/2019 12:17	DO	0.84	mg/L
MR-AP-MW-2	5/1/2019 12:17	Depth to Water Detail	203.6	ft
MR-AP-MW-2	5/1/2019 12:17	Oxidation Reduction Potention	-37.8	mv
MR-AP-MW-2	5/1/2019 12:17	pH	6.02	pH
MR-AP-MW-2	5/1/2019 12:17	Temperature	21.94	C
MR-AP-MW-2	5/1/2019 12:17	Turbidity	0.85	NTU
MR-AP-MW-2	5/1/2019 12:22	Conductivity	2801.8	uS/cm
MR-AP-MW-2	5/1/2019 12:22	DO	0.53	mg/L
MR-AP-MW-2	5/1/2019 12:22	Depth to Water Detail	203.62	ft
MR-AP-MW-2	5/1/2019 12:22	Oxidation Reduction Potention	-49.8	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-2	5/1/2019 12:22	pH	6.13	pH
MR-AP-MW-2	5/1/2019 12:22	Temperature	21.41	C
MR-AP-MW-2	5/1/2019 12:22	Turbidity	0.35	NTU
MR-AP-MW-2	5/1/2019 12:27	Conductivity	2891.6	uS/cm
MR-AP-MW-2	5/1/2019 12:27	DO	0.78	mg/L
MR-AP-MW-2	5/1/2019 12:27	Depth to Water Detail	203.55	ft
MR-AP-MW-2	5/1/2019 12:27	Oxidation Reduction Potential	-46.3	mv
MR-AP-MW-2	5/1/2019 12:27	pH	6.1	pH
MR-AP-MW-2	5/1/2019 12:27	Temperature	21.82	C
MR-AP-MW-2	5/1/2019 12:27	Turbidity	0.84	NTU
MR-AP-MW-2	5/1/2019 12:32	Conductivity	2591	uS/cm
MR-AP-MW-2	5/1/2019 12:32	DO	0.71	mg/L
MR-AP-MW-2	5/1/2019 12:32	Depth to Water Detail	203.5	ft
MR-AP-MW-2	5/1/2019 12:32	Oxidation Reduction Potential	-55.9	mv
MR-AP-MW-2	5/1/2019 12:32	pH	6.19	pH
MR-AP-MW-2	5/1/2019 12:32	Temperature	22.44	C
MR-AP-MW-2	5/1/2019 12:32	Turbidity	0.47	NTU
MR-AP-MW-2	5/1/2019 12:37	Conductivity	2617.4	uS/cm
MR-AP-MW-2	5/1/2019 12:37	DO	0.68	mg/L
MR-AP-MW-2	5/1/2019 12:37	Depth to Water Detail	203.65	ft
MR-AP-MW-2	5/1/2019 12:37	Oxidation Reduction Potential	-54.9	mv
MR-AP-MW-2	5/1/2019 12:37	pH	6.19	pH
MR-AP-MW-2	5/1/2019 12:37	Temperature	21.55	C
MR-AP-MW-2	5/1/2019 12:37	Turbidity	0.36	NTU
MR-AP-MW-2	5/1/2019 12:42	Conductivity	2716.8	uS/cm
MR-AP-MW-2	5/1/2019 12:42	DO	0.98	mg/L
MR-AP-MW-2	5/1/2019 12:42	Depth to Water Detail	203.54	ft
MR-AP-MW-2	5/1/2019 12:42	Oxidation Reduction Potential	-50.2	mv
MR-AP-MW-2	5/1/2019 12:42	pH	6.12	pH
MR-AP-MW-2	5/1/2019 12:42	Temperature	22.89	C
MR-AP-MW-2	5/1/2019 12:42	Turbidity	0.52	NTU
MR-AP-MW-2	5/1/2019 12:47	Conductivity	2464.3	uS/cm
MR-AP-MW-2	5/1/2019 12:47	DO	0.64	mg/L
MR-AP-MW-2	5/1/2019 12:47	Depth to Water Detail	202.75	ft
MR-AP-MW-2	5/1/2019 12:47	Oxidation Reduction Potential	-56.8	mv
MR-AP-MW-2	5/1/2019 12:47	pH	6.21	pH
MR-AP-MW-2	5/1/2019 12:47	Temperature	23.34	C
MR-AP-MW-2	5/1/2019 12:47	Turbidity	0.43	NTU
MR-AP-MW-2	5/1/2019 12:52	Conductivity	2651.2	uS/cm
MR-AP-MW-2	5/1/2019 12:52	DO	0.46	mg/L
MR-AP-MW-2	5/1/2019 12:52	Depth to Water Detail	203.14	ft
MR-AP-MW-2	5/1/2019 12:52	Oxidation Reduction Potential	-50.8	mv
MR-AP-MW-2	5/1/2019 12:52	pH	6.17	pH
MR-AP-MW-2	5/1/2019 12:52	Temperature	20.13	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-2	5/1/2019 12:52	Turbidity	0.65	NTU
MR-AP-MW-2	5/1/2019 12:57	Conductivity	2031.5	uS/cm
MR-AP-MW-2	5/1/2019 12:57	DO	0.39	mg/L
MR-AP-MW-2	5/1/2019 12:57	Depth to Water Detail	203.37	ft
MR-AP-MW-2	5/1/2019 12:57	Oxidation Reduction Potention	-84.1	mv
MR-AP-MW-2	5/1/2019 12:57	pH	6.41	pH
MR-AP-MW-2	5/1/2019 12:57	Temperature	19.86	C
MR-AP-MW-2	5/1/2019 12:57	Turbidity	0.56	NTU
MR-AP-MW-2	5/1/2019 13:02	Conductivity	2248.2	uS/cm
MR-AP-MW-2	5/1/2019 13:02	DO	0.38	mg/L
MR-AP-MW-2	5/1/2019 13:02	Depth to Water Detail	203.47	ft
MR-AP-MW-2	5/1/2019 13:02	Oxidation Reduction Potention	-78	mv
MR-AP-MW-2	5/1/2019 13:02	pH	6.38	pH
MR-AP-MW-2	5/1/2019 13:02	Temperature	19.85	C
MR-AP-MW-2	5/1/2019 13:02	Turbidity	0.58	NTU
MR-AP-MW-2	5/1/2019 13:08	Conductivity	2374.6	uS/cm
MR-AP-MW-2	5/1/2019 13:08	DO	0.38	mg/L
MR-AP-MW-2	5/1/2019 13:08	Depth to Water Detail	203.55	ft
MR-AP-MW-2	5/1/2019 13:08	Oxidation Reduction Potention	-70.7	mv
MR-AP-MW-2	5/1/2019 13:08	pH	6.31	pH
MR-AP-MW-2	5/1/2019 13:08	Temperature	19.68	C
MR-AP-MW-2	5/1/2019 13:08	Turbidity	0.56	NTU
MR-AP-MW-2	5/1/2019 13:13	Conductivity	2445.4	uS/cm
MR-AP-MW-2	5/1/2019 13:13	DO	0.38	mg/L
MR-AP-MW-2	5/1/2019 13:13	Depth to Water Detail	203.55	ft
MR-AP-MW-2	5/1/2019 13:13	Oxidation Reduction Potention	-65.8	mv
MR-AP-MW-2	5/1/2019 13:13	pH	6.28	pH
MR-AP-MW-2	5/1/2019 13:13	Temperature	19.92	C
MR-AP-MW-2	5/1/2019 13:13	Turbidity	0.91	NTU
MR-AP-MW-2	5/1/2019 13:18	Conductivity	2483.1	uS/cm
MR-AP-MW-2	5/1/2019 13:18	DO	0.37	mg/L
MR-AP-MW-2	5/1/2019 13:18	Depth to Water Detail	203.6	ft
MR-AP-MW-2	5/1/2019 13:18	Oxidation Reduction Potention	-61.9	mv
MR-AP-MW-2	5/1/2019 13:18	pH	6.25	pH
MR-AP-MW-2	5/1/2019 13:18	Temperature	19.78	C
MR-AP-MW-2	5/1/2019 13:18	Turbidity	0.75	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	4/29/2019 10:25	Conductivity	1329.4	uS/cm
MR-AP-MW-3D	4/29/2019 10:25	DO	5.49	mg/L
MR-AP-MW-3D	4/29/2019 10:25	Depth to Water Detail	110.75	ft
MR-AP-MW-3D	4/29/2019 10:25	Oxidation Reduction Potention	-27.3	mv
MR-AP-MW-3D	4/29/2019 10:25	pH	6.84	pH
MR-AP-MW-3D	4/29/2019 10:25	Temperature	19.01	C
MR-AP-MW-3D	4/29/2019 10:25	Turbidity	86.8	NTU
MR-AP-MW-3D	4/29/2019 10:30	Conductivity	1308.4	uS/cm
MR-AP-MW-3D	4/29/2019 10:30	DO	2.07	mg/L
MR-AP-MW-3D	4/29/2019 10:30	Depth to Water Detail	110.78	ft
MR-AP-MW-3D	4/29/2019 10:30	Oxidation Reduction Potention	-35.1	mv
MR-AP-MW-3D	4/29/2019 10:30	pH	6.84	pH
MR-AP-MW-3D	4/29/2019 10:30	Temperature	18.88	C
MR-AP-MW-3D	4/29/2019 10:30	Turbidity	51.2	NTU
MR-AP-MW-3D	4/29/2019 10:35	Conductivity	1301.5	uS/cm
MR-AP-MW-3D	4/29/2019 10:35	DO	1.13	mg/L
MR-AP-MW-3D	4/29/2019 10:35	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 10:35	Oxidation Reduction Potention	-34.3	mv
MR-AP-MW-3D	4/29/2019 10:35	pH	6.82	pH
MR-AP-MW-3D	4/29/2019 10:35	Temperature	18.83	C
MR-AP-MW-3D	4/29/2019 10:35	Turbidity	49.7	NTU
MR-AP-MW-3D	4/29/2019 10:40	Conductivity	1301.4	uS/cm
MR-AP-MW-3D	4/29/2019 10:40	DO	0.92	mg/L
MR-AP-MW-3D	4/29/2019 10:40	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 10:40	Oxidation Reduction Potention	-33	mv
MR-AP-MW-3D	4/29/2019 10:40	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 10:40	Temperature	18.84	C
MR-AP-MW-3D	4/29/2019 10:40	Turbidity	42.3	NTU
MR-AP-MW-3D	4/29/2019 10:45	Conductivity	1296	uS/cm
MR-AP-MW-3D	4/29/2019 10:45	DO	0.78	mg/L
MR-AP-MW-3D	4/29/2019 10:45	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 10:45	Oxidation Reduction Potention	-31.2	mv
MR-AP-MW-3D	4/29/2019 10:45	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 10:45	Temperature	18.93	C
MR-AP-MW-3D	4/29/2019 10:45	Turbidity	40.5	NTU
MR-AP-MW-3D	4/29/2019 10:50	Conductivity	1298.3	uS/cm
MR-AP-MW-3D	4/29/2019 10:50	DO	0.69	mg/L
MR-AP-MW-3D	4/29/2019 10:50	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 10:50	Oxidation Reduction Potention	-30.5	mv
MR-AP-MW-3D	4/29/2019 10:50	pH	6.79	pH
MR-AP-MW-3D	4/29/2019 10:50	Temperature	19.01	C
MR-AP-MW-3D	4/29/2019 10:50	Turbidity	36.7	NTU
MR-AP-MW-3D	4/29/2019 10:55	Conductivity	1298	uS/cm
MR-AP-MW-3D	4/29/2019 10:55	DO	0.62	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	4/29/2019 10:55	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 10:55	Oxidation Reduction Potention	-29.6	mv
MR-AP-MW-3D	4/29/2019 10:55	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 10:55	Temperature	19.01	C
MR-AP-MW-3D	4/29/2019 10:55	Turbidity	36.6	NTU
MR-AP-MW-3D	4/29/2019 11:00	Conductivity	1296.7	uS/cm
MR-AP-MW-3D	4/29/2019 11:00	DO	0.56	mg/L
MR-AP-MW-3D	4/29/2019 11:00	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:00	Oxidation Reduction Potention	-29.8	mv
MR-AP-MW-3D	4/29/2019 11:00	pH	6.79	pH
MR-AP-MW-3D	4/29/2019 11:00	Temperature	19.01	C
MR-AP-MW-3D	4/29/2019 11:00	Turbidity	34	NTU
MR-AP-MW-3D	4/29/2019 11:05	Conductivity	1294.9	uS/cm
MR-AP-MW-3D	4/29/2019 11:05	DO	0.52	mg/L
MR-AP-MW-3D	4/29/2019 11:05	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:05	Oxidation Reduction Potention	-28.8	mv
MR-AP-MW-3D	4/29/2019 11:05	pH	6.79	pH
MR-AP-MW-3D	4/29/2019 11:05	Temperature	19.06	C
MR-AP-MW-3D	4/29/2019 11:05	Turbidity	30.3	NTU
MR-AP-MW-3D	4/29/2019 11:10	Conductivity	1293.2	uS/cm
MR-AP-MW-3D	4/29/2019 11:10	DO	0.48	mg/L
MR-AP-MW-3D	4/29/2019 11:10	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:10	Oxidation Reduction Potention	-28.2	mv
MR-AP-MW-3D	4/29/2019 11:10	pH	6.79	pH
MR-AP-MW-3D	4/29/2019 11:10	Temperature	19.11	C
MR-AP-MW-3D	4/29/2019 11:10	Turbidity	34.8	NTU
MR-AP-MW-3D	4/29/2019 11:15	Conductivity	1286.8	uS/cm
MR-AP-MW-3D	4/29/2019 11:15	DO	0.44	mg/L
MR-AP-MW-3D	4/29/2019 11:15	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:15	Oxidation Reduction Potention	-28	mv
MR-AP-MW-3D	4/29/2019 11:15	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:15	Temperature	19.09	C
MR-AP-MW-3D	4/29/2019 11:15	Turbidity	29.4	NTU
MR-AP-MW-3D	4/29/2019 11:20	Conductivity	1290.3	uS/cm
MR-AP-MW-3D	4/29/2019 11:20	DO	0.42	mg/L
MR-AP-MW-3D	4/29/2019 11:20	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:20	Oxidation Reduction Potention	-27	mv
MR-AP-MW-3D	4/29/2019 11:20	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:20	Temperature	19.1	C
MR-AP-MW-3D	4/29/2019 11:20	Turbidity	29.7	NTU
MR-AP-MW-3D	4/29/2019 11:25	Conductivity	1292.1	uS/cm
MR-AP-MW-3D	4/29/2019 11:25	DO	0.41	mg/L
MR-AP-MW-3D	4/29/2019 11:25	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:25	Oxidation Reduction Potention	-26.9	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	4/29/2019 11:25	pH	6.79	pH
MR-AP-MW-3D	4/29/2019 11:25	Temperature	19.15	C
MR-AP-MW-3D	4/29/2019 11:25	Turbidity	27.7	NTU
MR-AP-MW-3D	4/29/2019 11:30	Conductivity	1294.5	uS/cm
MR-AP-MW-3D	4/29/2019 11:30	DO	0.38	mg/L
MR-AP-MW-3D	4/29/2019 11:30	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:30	Oxidation Reduction Potential	-26.2	mv
MR-AP-MW-3D	4/29/2019 11:30	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:30	Temperature	19.06	C
MR-AP-MW-3D	4/29/2019 11:30	Turbidity	25.8	NTU
MR-AP-MW-3D	4/29/2019 11:35	Conductivity	1293.3	uS/cm
MR-AP-MW-3D	4/29/2019 11:35	DO	0.36	mg/L
MR-AP-MW-3D	4/29/2019 11:35	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:35	Oxidation Reduction Potential	-25.8	mv
MR-AP-MW-3D	4/29/2019 11:35	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:35	Temperature	19.1	C
MR-AP-MW-3D	4/29/2019 11:35	Turbidity	21.9	NTU
MR-AP-MW-3D	4/29/2019 11:40	Conductivity	1290.5	uS/cm
MR-AP-MW-3D	4/29/2019 11:40	DO	0.35	mg/L
MR-AP-MW-3D	4/29/2019 11:40	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:40	Oxidation Reduction Potential	-27	mv
MR-AP-MW-3D	4/29/2019 11:40	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:40	Temperature	19.21	C
MR-AP-MW-3D	4/29/2019 11:40	Turbidity	21.8	NTU
MR-AP-MW-3D	4/29/2019 11:45	Conductivity	1289.5	uS/cm
MR-AP-MW-3D	4/29/2019 11:45	DO	0.34	mg/L
MR-AP-MW-3D	4/29/2019 11:45	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:45	Oxidation Reduction Potential	-25.7	mv
MR-AP-MW-3D	4/29/2019 11:45	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 11:45	Temperature	19.13	C
MR-AP-MW-3D	4/29/2019 11:45	Turbidity	23.5	NTU
MR-AP-MW-3D	4/29/2019 11:50	Conductivity	1289.4	uS/cm
MR-AP-MW-3D	4/29/2019 11:50	DO	0.34	mg/L
MR-AP-MW-3D	4/29/2019 11:50	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:50	Oxidation Reduction Potential	-25.4	mv
MR-AP-MW-3D	4/29/2019 11:50	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:50	Temperature	19.25	C
MR-AP-MW-3D	4/29/2019 11:50	Turbidity	20	NTU
MR-AP-MW-3D	4/29/2019 11:55	Conductivity	1287.1	uS/cm
MR-AP-MW-3D	4/29/2019 11:55	DO	0.34	mg/L
MR-AP-MW-3D	4/29/2019 11:55	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 11:55	Oxidation Reduction Potential	-24.9	mv
MR-AP-MW-3D	4/29/2019 11:55	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 11:55	Temperature	19.17	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	4/29/2019 11:55	Turbidity	19.4	NTU
MR-AP-MW-3D	4/29/2019 12:00	Conductivity	1287.6	uS/cm
MR-AP-MW-3D	4/29/2019 12:00	DO	0.33	mg/L
MR-AP-MW-3D	4/29/2019 12:00	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:00	Oxidation Reduction Potention	-24.6	mv
MR-AP-MW-3D	4/29/2019 12:00	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:00	Temperature	19.24	C
MR-AP-MW-3D	4/29/2019 12:00	Turbidity	18.9	NTU
MR-AP-MW-3D	4/29/2019 12:05	Conductivity	1288.4	uS/cm
MR-AP-MW-3D	4/29/2019 12:05	DO	0.33	mg/L
MR-AP-MW-3D	4/29/2019 12:05	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:05	Oxidation Reduction Potention	-24.3	mv
MR-AP-MW-3D	4/29/2019 12:05	pH	6.8	pH
MR-AP-MW-3D	4/29/2019 12:05	Temperature	19.24	C
MR-AP-MW-3D	4/29/2019 12:05	Turbidity	17.3	NTU
MR-AP-MW-3D	4/29/2019 12:10	Conductivity	1283.3	uS/cm
MR-AP-MW-3D	4/29/2019 12:10	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 12:10	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:10	Oxidation Reduction Potention	-24	mv
MR-AP-MW-3D	4/29/2019 12:10	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:10	Temperature	19.28	C
MR-AP-MW-3D	4/29/2019 12:10	Turbidity	17.6	NTU
MR-AP-MW-3D	4/29/2019 12:15	Conductivity	1287.6	uS/cm
MR-AP-MW-3D	4/29/2019 12:15	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 12:15	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:15	Oxidation Reduction Potention	-23.3	mv
MR-AP-MW-3D	4/29/2019 12:15	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:15	Temperature	19.1	C
MR-AP-MW-3D	4/29/2019 12:15	Turbidity	16.7	NTU
MR-AP-MW-3D	4/29/2019 12:20	Conductivity	1288	uS/cm
MR-AP-MW-3D	4/29/2019 12:20	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 12:20	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:20	Oxidation Reduction Potention	-23.2	mv
MR-AP-MW-3D	4/29/2019 12:20	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:20	Temperature	19.31	C
MR-AP-MW-3D	4/29/2019 12:20	Turbidity	16.2	NTU
MR-AP-MW-3D	4/29/2019 12:25	Conductivity	1288.4	uS/cm
MR-AP-MW-3D	4/29/2019 12:25	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 12:25	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:25	Oxidation Reduction Potention	-22.9	mv
MR-AP-MW-3D	4/29/2019 12:25	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:25	Temperature	19.13	C
MR-AP-MW-3D	4/29/2019 12:25	Turbidity	16.7	NTU
MR-AP-MW-3D	4/29/2019 12:30	Conductivity	1287.3	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	4/29/2019 12:30	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 12:30	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:30	Oxidation Reduction Potention	-22.4	mv
MR-AP-MW-3D	4/29/2019 12:30	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:30	Temperature	19.28	C
MR-AP-MW-3D	4/29/2019 12:30	Turbidity	14.1	NTU
MR-AP-MW-3D	4/29/2019 12:35	Conductivity	1282.3	uS/cm
MR-AP-MW-3D	4/29/2019 12:35	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 12:35	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:35	Oxidation Reduction Potention	-21.8	mv
MR-AP-MW-3D	4/29/2019 12:35	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:35	Temperature	19.32	C
MR-AP-MW-3D	4/29/2019 12:35	Turbidity	13.3	NTU
MR-AP-MW-3D	4/29/2019 12:40	Conductivity	1285.7	uS/cm
MR-AP-MW-3D	4/29/2019 12:40	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 12:40	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:40	Oxidation Reduction Potention	-21.4	mv
MR-AP-MW-3D	4/29/2019 12:40	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:40	Temperature	19.25	C
MR-AP-MW-3D	4/29/2019 12:40	Turbidity	11.9	NTU
MR-AP-MW-3D	4/29/2019 12:45	Conductivity	1284.4	uS/cm
MR-AP-MW-3D	4/29/2019 12:45	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 12:45	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:45	Oxidation Reduction Potention	-20.9	mv
MR-AP-MW-3D	4/29/2019 12:45	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:45	Temperature	19.19	C
MR-AP-MW-3D	4/29/2019 12:45	Turbidity	11.5	NTU
MR-AP-MW-3D	4/29/2019 12:50	Conductivity	1283.7	uS/cm
MR-AP-MW-3D	4/29/2019 12:50	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 12:50	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:50	Oxidation Reduction Potention	-21	mv
MR-AP-MW-3D	4/29/2019 12:50	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:50	Temperature	19.38	C
MR-AP-MW-3D	4/29/2019 12:50	Turbidity	11.1	NTU
MR-AP-MW-3D	4/29/2019 12:56	Conductivity	1287.2	uS/cm
MR-AP-MW-3D	4/29/2019 12:56	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 12:56	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 12:56	Oxidation Reduction Potention	-20.7	mv
MR-AP-MW-3D	4/29/2019 12:56	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 12:56	Temperature	19.25	C
MR-AP-MW-3D	4/29/2019 12:56	Turbidity	12	NTU
MR-AP-MW-3D	4/29/2019 13:01	Conductivity	1286.4	uS/cm
MR-AP-MW-3D	4/29/2019 13:01	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 13:01	Depth to Water Detail	110.8	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	4/29/2019 13:01	Oxidation Reduction Potention	-21.4	mv
MR-AP-MW-3D	4/29/2019 13:01	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 13:01	Temperature	19.5	C
MR-AP-MW-3D	4/29/2019 13:01	Turbidity	11.4	NTU
MR-AP-MW-3D	4/29/2019 13:06	Conductivity	1283.4	uS/cm
MR-AP-MW-3D	4/29/2019 13:06	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 13:06	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 13:06	Oxidation Reduction Potention	-21.1	mv
MR-AP-MW-3D	4/29/2019 13:06	pH	6.82	pH
MR-AP-MW-3D	4/29/2019 13:06	Temperature	19.38	C
MR-AP-MW-3D	4/29/2019 13:06	Turbidity	10.7	NTU
MR-AP-MW-3D	4/29/2019 13:11	Conductivity	1282.6	uS/cm
MR-AP-MW-3D	4/29/2019 13:11	DO	0.31	mg/L
MR-AP-MW-3D	4/29/2019 13:11	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 13:11	Oxidation Reduction Potention	-21.2	mv
MR-AP-MW-3D	4/29/2019 13:11	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 13:11	Temperature	19.45	C
MR-AP-MW-3D	4/29/2019 13:11	Turbidity	10.36	NTU
MR-AP-MW-3D	4/29/2019 13:16	Conductivity	1280.7	uS/cm
MR-AP-MW-3D	4/29/2019 13:16	DO	0.32	mg/L
MR-AP-MW-3D	4/29/2019 13:16	Depth to Water Detail	110.8	ft
MR-AP-MW-3D	4/29/2019 13:16	Oxidation Reduction Potention	-21.5	mv
MR-AP-MW-3D	4/29/2019 13:16	pH	6.81	pH
MR-AP-MW-3D	4/29/2019 13:16	Temperature	19.58	C
MR-AP-MW-3D	4/29/2019 13:16	Turbidity	9.98	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-4	4/29/2019 14:03	Conductivity	1455.6	uS/cm
MR-AP-MW-4	4/29/2019 14:03	DO	1.3	mg/L
MR-AP-MW-4	4/29/2019 14:03	Depth to Water Detail	42.28	ft
MR-AP-MW-4	4/29/2019 14:03	Oxidation Reduction Potention	104.6	mv
MR-AP-MW-4	4/29/2019 14:03	pH	6.19	pH
MR-AP-MW-4	4/29/2019 14:03	Temperature	20.98	C
MR-AP-MW-4	4/29/2019 14:03	Turbidity	8.82	NTU
MR-AP-MW-4	4/29/2019 14:08	Conductivity	1438.2	uS/cm
MR-AP-MW-4	4/29/2019 14:08	DO	0.7	mg/L
MR-AP-MW-4	4/29/2019 14:08	Depth to Water Detail	42.33	ft
MR-AP-MW-4	4/29/2019 14:08	Oxidation Reduction Potention	114	mv
MR-AP-MW-4	4/29/2019 14:08	pH	6	pH
MR-AP-MW-4	4/29/2019 14:08	Temperature	20.95	C
MR-AP-MW-4	4/29/2019 14:08	Turbidity	4.97	NTU
MR-AP-MW-4	4/29/2019 14:13	Conductivity	1433.7	uS/cm
MR-AP-MW-4	4/29/2019 14:13	DO	0.52	mg/L
MR-AP-MW-4	4/29/2019 14:13	Depth to Water Detail	42.33	ft
MR-AP-MW-4	4/29/2019 14:13	Oxidation Reduction Potention	120.2	mv
MR-AP-MW-4	4/29/2019 14:13	pH	5.95	pH
MR-AP-MW-4	4/29/2019 14:13	Temperature	20.95	C
MR-AP-MW-4	4/29/2019 14:13	Turbidity	4.3	NTU
MR-AP-MW-4	4/29/2019 14:18	Conductivity	1431.4	uS/cm
MR-AP-MW-4	4/29/2019 14:18	DO	0.45	mg/L
MR-AP-MW-4	4/29/2019 14:18	Depth to Water Detail	42.33	ft
MR-AP-MW-4	4/29/2019 14:18	Oxidation Reduction Potention	122.6	mv
MR-AP-MW-4	4/29/2019 14:18	pH	5.93	pH
MR-AP-MW-4	4/29/2019 14:18	Temperature	20.95	C
MR-AP-MW-4	4/29/2019 14:18	Turbidity	2.89	NTU
MR-AP-MW-4	4/29/2019 14:23	Conductivity	1429.5	uS/cm
MR-AP-MW-4	4/29/2019 14:23	DO	0.4	mg/L
MR-AP-MW-4	4/29/2019 14:23	Depth to Water Detail	42.33	ft
MR-AP-MW-4	4/29/2019 14:23	Oxidation Reduction Potention	125.7	mv
MR-AP-MW-4	4/29/2019 14:23	pH	5.91	pH
MR-AP-MW-4	4/29/2019 14:23	Temperature	20.94	C
MR-AP-MW-4	4/29/2019 14:23	Turbidity	1.76	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-11	5/1/2019 14:28	Conductivity	1491.5	uS/cm
MR-AP-MW-11	5/1/2019 14:28	DO	0.61	mg/L
MR-AP-MW-11	5/1/2019 14:28	Depth to Water Detail	229.29	ft
MR-AP-MW-11	5/1/2019 14:28	Oxidation Reduction Potention	-50.8	mv
MR-AP-MW-11	5/1/2019 14:28	pH	6.53	pH
MR-AP-MW-11	5/1/2019 14:28	Temperature	21.27	C
MR-AP-MW-11	5/1/2019 14:28	Turbidity	9.31	NTU
MR-AP-MW-11	5/1/2019 14:33	Conductivity	1490.3	uS/cm
MR-AP-MW-11	5/1/2019 14:33	DO	0.57	mg/L
MR-AP-MW-11	5/1/2019 14:33	Depth to Water Detail	229.6	ft
MR-AP-MW-11	5/1/2019 14:33	Oxidation Reduction Potention	-55.8	mv
MR-AP-MW-11	5/1/2019 14:33	pH	6.55	pH
MR-AP-MW-11	5/1/2019 14:33	Temperature	21.53	C
MR-AP-MW-11	5/1/2019 14:33	Turbidity	7.41	NTU
MR-AP-MW-11	5/1/2019 14:38	Conductivity	1481.3	uS/cm
MR-AP-MW-11	5/1/2019 14:38	DO	0.52	mg/L
MR-AP-MW-11	5/1/2019 14:38	Depth to Water Detail	229.88	ft
MR-AP-MW-11	5/1/2019 14:38	Oxidation Reduction Potention	-56.4	mv
MR-AP-MW-11	5/1/2019 14:38	pH	6.56	pH
MR-AP-MW-11	5/1/2019 14:38	Temperature	21.33	C
MR-AP-MW-11	5/1/2019 14:38	Turbidity	6.02	NTU
MR-AP-MW-11	5/1/2019 14:43	Conductivity	1483.3	uS/cm
MR-AP-MW-11	5/1/2019 14:43	DO	0.51	mg/L
MR-AP-MW-11	5/1/2019 14:43	Depth to Water Detail	230.09	ft
MR-AP-MW-11	5/1/2019 14:43	Oxidation Reduction Potention	-55.4	mv
MR-AP-MW-11	5/1/2019 14:43	pH	6.56	pH
MR-AP-MW-11	5/1/2019 14:43	Temperature	20.97	C
MR-AP-MW-11	5/1/2019 14:43	Turbidity	3.98	NTU
MR-AP-MW-11	5/1/2019 14:48	Conductivity	1496.1	uS/cm
MR-AP-MW-11	5/1/2019 14:48	DO	0.54	mg/L
MR-AP-MW-11	5/1/2019 14:48	Depth to Water Detail	230.25	ft
MR-AP-MW-11	5/1/2019 14:48	Oxidation Reduction Potention	-55.4	mv
MR-AP-MW-11	5/1/2019 14:48	pH	6.55	pH
MR-AP-MW-11	5/1/2019 14:48	Temperature	21.2	C
MR-AP-MW-11	5/1/2019 14:48	Turbidity	3.15	NTU
MR-AP-MW-11	5/1/2019 14:53	Conductivity	1503.9	uS/cm
MR-AP-MW-11	5/1/2019 14:53	DO	0.69	mg/L
MR-AP-MW-11	5/1/2019 14:53	Depth to Water Detail	230.1	ft
MR-AP-MW-11	5/1/2019 14:53	Oxidation Reduction Potention	-57.8	mv
MR-AP-MW-11	5/1/2019 14:53	pH	6.54	pH
MR-AP-MW-11	5/1/2019 14:53	Temperature	23.34	C
MR-AP-MW-11	5/1/2019 14:53	Turbidity	2.05	NTU
MR-AP-MW-11	5/1/2019 14:58	Conductivity	1470.7	uS/cm
MR-AP-MW-11	5/1/2019 14:58	DO	0.56	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-11	5/1/2019 14:58	Depth to Water Detail	230.26	ft
MR-AP-MW-11	5/1/2019 14:58	Oxidation Reduction Potention	-52.3	mv
MR-AP-MW-11	5/1/2019 14:58	pH	6.55	pH
MR-AP-MW-11	5/1/2019 14:58	Temperature	22.13	C
MR-AP-MW-11	5/1/2019 14:58	Turbidity	2.28	NTU
MR-AP-MW-11	5/1/2019 15:04	Conductivity	1471.4	uS/cm
MR-AP-MW-11	5/1/2019 15:04	DO	0.51	mg/L
MR-AP-MW-11	5/1/2019 15:04	Depth to Water Detail	230.43	ft
MR-AP-MW-11	5/1/2019 15:04	Oxidation Reduction Potention	-51.5	mv
MR-AP-MW-11	5/1/2019 15:04	pH	6.56	pH
MR-AP-MW-11	5/1/2019 15:04	Temperature	21.6	C
MR-AP-MW-11	5/1/2019 15:04	Turbidity	2.94	NTU
MR-AP-MW-11	5/1/2019 15:09	Conductivity	1443.9	uS/cm
MR-AP-MW-11	5/1/2019 15:09	DO	0.5	mg/L
MR-AP-MW-11	5/1/2019 15:09	Depth to Water Detail	230.55	ft
MR-AP-MW-11	5/1/2019 15:09	Oxidation Reduction Potention	-56.2	mv
MR-AP-MW-11	5/1/2019 15:09	pH	6.64	pH
MR-AP-MW-11	5/1/2019 15:09	Temperature	21.74	C
MR-AP-MW-11	5/1/2019 15:09	Turbidity	3.05	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-13	4/16/2019 17:54	Conductivity	324	uS/cm
GS-AP-MW-13	4/16/2019 17:54	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 17:54	DO	0.72	mg/L
GS-AP-MW-13	4/16/2019 17:54	Oxidation Reduction Potention	77.1	mv
GS-AP-MW-13	4/16/2019 17:54	pH	6.69	pH
GS-AP-MW-13	4/16/2019 17:54	Temperature	17.47	C
GS-AP-MW-13	4/16/2019 17:54	Turbidity	1.22	NTU
GS-AP-MW-13	4/16/2019 17:59	Conductivity	324.8	uS/cm
GS-AP-MW-13	4/16/2019 17:59	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 17:59	DO	0.58	mg/L
GS-AP-MW-13	4/16/2019 17:59	Oxidation Reduction Potention	82	mv
GS-AP-MW-13	4/16/2019 17:59	pH	6.65	pH
GS-AP-MW-13	4/16/2019 17:59	Temperature	17.34	C
GS-AP-MW-13	4/16/2019 17:59	Turbidity	2.08	NTU
GS-AP-MW-13	4/16/2019 18:04	Conductivity	327.3	uS/cm
GS-AP-MW-13	4/16/2019 18:04	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 18:04	DO	0.43	mg/L
GS-AP-MW-13	4/16/2019 18:04	Oxidation Reduction Potention	78.9	mv
GS-AP-MW-13	4/16/2019 18:04	pH	6.65	pH
GS-AP-MW-13	4/16/2019 18:04	Temperature	17.16	C
GS-AP-MW-13	4/16/2019 18:04	Turbidity	1.66	NTU
GS-AP-MW-13	4/16/2019 18:09	Conductivity	327.5	uS/cm
GS-AP-MW-13	4/16/2019 18:09	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 18:09	DO	0.35	mg/L
GS-AP-MW-13	4/16/2019 18:09	Oxidation Reduction Potention	77.4	mv
GS-AP-MW-13	4/16/2019 18:09	pH	6.64	pH
GS-AP-MW-13	4/16/2019 18:09	Temperature	17.16	C
GS-AP-MW-13	4/16/2019 18:09	Turbidity	1.5	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-8	4/16/2019 12:41	Conductivity	137.2	uS/cm
GS-AP-MW-8	4/16/2019 12:41	Depth to Water Detail	44.14	ft
GS-AP-MW-8	4/16/2019 12:41	DO	0.89	mg/L
GS-AP-MW-8	4/16/2019 12:41	Oxidation Reduction Potention	141	mv
GS-AP-MW-8	4/16/2019 12:41	pH	5.8	pH
GS-AP-MW-8	4/16/2019 12:41	Temperature	19.73	C
GS-AP-MW-8	4/16/2019 12:41	Turbidity	19.1	NTU
GS-AP-MW-8	4/16/2019 12:46	Conductivity	137.4	uS/cm
GS-AP-MW-8	4/16/2019 12:46	Depth to Water Detail	44.3	ft
GS-AP-MW-8	4/16/2019 12:46	DO	0.81	mg/L
GS-AP-MW-8	4/16/2019 12:46	Oxidation Reduction Potention	151.9	mv
GS-AP-MW-8	4/16/2019 12:46	pH	5.78	pH
GS-AP-MW-8	4/16/2019 12:46	Temperature	19.66	C
GS-AP-MW-8	4/16/2019 12:46	Turbidity	5.03	NTU
GS-AP-MW-8	4/16/2019 12:51	Conductivity	136.6	uS/cm
GS-AP-MW-8	4/16/2019 12:51	Depth to Water Detail	44.34	ft
GS-AP-MW-8	4/16/2019 12:51	DO	0.78	mg/L
GS-AP-MW-8	4/16/2019 12:51	Oxidation Reduction Potention	159.9	mv
GS-AP-MW-8	4/16/2019 12:51	pH	5.77	pH
GS-AP-MW-8	4/16/2019 12:51	Temperature	19.59	C
GS-AP-MW-8	4/16/2019 12:51	Turbidity	2.37	NTU
GS-AP-MW-8	4/16/2019 12:56	Conductivity	136.4	uS/cm
GS-AP-MW-8	4/16/2019 12:56	Depth to Water Detail	44.46	ft
GS-AP-MW-8	4/16/2019 12:56	DO	0.76	mg/L
GS-AP-MW-8	4/16/2019 12:56	Oxidation Reduction Potention	164.6	mv
GS-AP-MW-8	4/16/2019 12:56	pH	5.76	pH
GS-AP-MW-8	4/16/2019 12:56	Temperature	19.61	C
GS-AP-MW-8	4/16/2019 12:56	Turbidity	1.55	NTU

2nd
Semi-Annual
Monitoring Event

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

Analytical Report



Sample Group : WMWMILAP_1237

Project/Site : Miller Ash Pond
Quinton, AL 35130

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

Attention : Dustin Brooks & Greg Dyer

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

October 09, 2019

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between August 29, 2019 and September 03, 2019. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2020

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

Sincerely,

Quality Control:

Laura Midkiff
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lbnickif@southernco.com, c=US
Date: 2019.10.09 10:39:28 -0500

Supervision:

T. Durant Maske
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2019.10.09 11:34:18 -0500



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
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Alabama Power's General Test Laboratory.



Metals ICP

Miller Ash Pond

WMWMILAP_1237

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>
AZ19615	654603	WMWMILAP_1237
AZ19616	654603	WMWMILAP_1237
AZ19617	654603	WMWMILAP_1237
AZ19618	654603	WMWMILAP_1237
AZ19619	654603	WMWMILAP_1237
AZ19620	654603	WMWMILAP_1237
AZ19621	654603	WMWMILAP_1237
AZ19622	654603	WMWMILAP_1237
AZ19623	654603	WMWMILAP_1237
AZ19624	654603	WMWMILAP_1237
AZ19625	654604	WMWMILAP_1237
AZ19626	654604	WMWMILAP_1237
AZ19627	654604	WMWMILAP_1237
AZ19628	654604	WMWMILAP_1237
AZ19629	654604	WMWMILAP_1237
AZ19630	654604	WMWMILAP_1237
AZ19631	654604	WMWMILAP_1237
AZ19632	654604	WMWMILAP_1237
AZ19633	654604	WMWMILAP_1237
AZ19634	654604	WMWMILAP_1237
AZ19635	654605	WMWMILAP_1237
AZ19636	654605	WMWMILAP_1237
AZ19637	654605	WMWMILAP_1237
AZ19638	654605	WMWMILAP_1237
AZ19639	654605	WMWMILAP_1237
AZ19640	654605	WMWMILAP_1237
AZ19641	654605	WMWMILAP_1237
AZ19642	654605	WMWMILAP_1237
AZ19643	654605	WMWMILAP_1237
AZ19644	654605	WMWMILAP_1237
AZ19645	654606	WMWMILAP_1237

AZ19646	654606	WMWMILAP_1237
AZ19647	654606	WMWMILAP_1237
AZ19831	654606	WMWMILAP_1237
AZ19832	654606	WMWMILAP_1237
AZ19833	654606	WMWMILAP_1237

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, except for the following:
 - Initial calcium CCV for batch 654605 did not pass. After corrective action performed and immediate reanalysis, the CCV passed.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - AZ19644 MS/MSD spike level for calcium was less than 30% of the sample nominal concentration.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ19615	Calcium	x10.15
AZ19616	Calcium	x10.15
AZ19617	Calcium	x10.15
AZ19619	Calcium	x10.15
AZ19620	Calcium	x10.15
AZ19621	Calcium	x10.15
AZ19622	Calcium	x10.15
AZ19623	Calcium	x10.15
AZ19624	Calcium	x10.15
AZ19625	Calcium	x10.15
AZ19626	Calcium	x10.15
AZ19627	Calcium	x10.15
AZ19628	Calcium	x10.15
AZ19629	Calcium	x10.15
AZ19632	Calcium	x10.15
AZ19633	Calcium	x10.15
AZ19634	Calcium	x10.15
AZ19637	Calcium	x10.15
AZ19638	Calcium	x10.15
AZ19639	Calcium	x10.15
AZ19640	Calcium	x10.15
AZ19642	Calcium	x10.15
AZ19643	Calcium	x10.15
AZ19644	Calcium	x10.15
AZ19645	Calcium	x10.15
AZ19832	Calcium	x10.15
AZ19833	Calcium	x10.15

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

Metals ICPMS

Miller Ash Pond

WMWMILAP_1237

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>
AZ19615	655163	WMWMILAP_1237
AZ19616	655163	WMWMILAP_1237
AZ19617	655163	WMWMILAP_1237
AZ19618	655163	WMWMILAP_1237
AZ19619	655163	WMWMILAP_1237
AZ19620	655163	WMWMILAP_1237
AZ19621	655163	WMWMILAP_1237
AZ19622	655163	WMWMILAP_1237
AZ19623	655163	WMWMILAP_1237
AZ19624	655163	WMWMILAP_1237
AZ19625	655164	WMWMILAP_1237
AZ19626	655164	WMWMILAP_1237
AZ19627	655164	WMWMILAP_1237
AZ19628	655164	WMWMILAP_1237
AZ19629	655164	WMWMILAP_1237
AZ19630	655164	WMWMILAP_1237
AZ19631	655164	WMWMILAP_1237
AZ19632	655164	WMWMILAP_1237
AZ19633	655164	WMWMILAP_1237
AZ19634	655164	WMWMILAP_1237
AZ19635	655165	WMWMILAP_1237
AZ19636	655165	WMWMILAP_1237
AZ19637	655165	WMWMILAP_1237
AZ19638	655165	WMWMILAP_1237
AZ19639	655165	WMWMILAP_1237
AZ19640	655165	WMWMILAP_1237
AZ19641	655165	WMWMILAP_1237
AZ19642	655165	WMWMILAP_1237
AZ19643	655165	WMWMILAP_1237
AZ19644	655165	WMWMILAP_1237
AZ19645	655166	WMWMILAP_1237

AZ19646	655166	WMWMILAP_1237
AZ19647	655166	WMWMILAP_1237
AZ19831	655166	WMWMILAP_1237
AZ19832	655166	WMWMILAP_1237
AZ19833	655166	WMWMILAP_1237

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

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

Matrix Specific Quality Control Procedures:

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

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

Mercury

Miller Ash Pond

WMWMILAP_1237

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>
AZ19615	654811	WMWMILAP_1237
AZ19616	654811	WMWMILAP_1237
AZ19617	654811	WMWMILAP_1237
AZ19618	654811	WMWMILAP_1237
AZ19619	654811	WMWMILAP_1237
AZ19620	654811	WMWMILAP_1237
AZ19621	654811	WMWMILAP_1237
AZ19622	654811	WMWMILAP_1237
AZ19623	654811	WMWMILAP_1237
AZ19624	654811	WMWMILAP_1237
AZ19625	654812	WMWMILAP_1237
AZ19626	654812	WMWMILAP_1237
AZ19627	654812	WMWMILAP_1237
AZ19628	654812	WMWMILAP_1237
AZ19629	654812	WMWMILAP_1237
AZ19630	654812	WMWMILAP_1237
AZ19631	654812	WMWMILAP_1237
AZ19632	654812	WMWMILAP_1237
AZ19633	654812	WMWMILAP_1237
AZ19634	654812	WMWMILAP_1237
AZ19635	654813	WMWMILAP_1237
AZ19636	654813	WMWMILAP_1237
AZ19637	654813	WMWMILAP_1237
AZ19638	654813	WMWMILAP_1237
AZ19639	654813	WMWMILAP_1237
AZ19640	654813	WMWMILAP_1237
AZ19641	654813	WMWMILAP_1237
AZ19642	654813	WMWMILAP_1237
AZ19643	654813	WMWMILAP_1237
AZ19644	654813	WMWMILAP_1237
AZ19645	654814	WMWMILAP_1237

AZ19646	654814	WMWMILAP_1237
AZ19647	654814	WMWMILAP_1237
AZ19831	654814	WMWMILAP_1237
AZ19832	654814	WMWMILAP_1237
AZ19833	654814	WMWMILAP_1237

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

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

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

TDS

Miller Ash Pond

WMWMILAP_1237

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>
AZ19615	654567	WMWMILAP_1237
AZ19616	654567	WMWMILAP_1237
AZ19617	654762	WMWMILAP_1237
AZ19618	654567	WMWMILAP_1237
AZ19619	654762	WMWMILAP_1237
AZ19620	654762	WMWMILAP_1237
AZ19621	654567	WMWMILAP_1237
AZ19622	654567	WMWMILAP_1237
AZ19623	654567	WMWMILAP_1237
AZ19624	654567	WMWMILAP_1237
AZ19625	654568	WMWMILAP_1237
AZ19626	654568	WMWMILAP_1237
AZ19627	654762	WMWMILAP_1237
AZ19628	654762	WMWMILAP_1237
AZ19629	654762	WMWMILAP_1237
AZ19630	654762	WMWMILAP_1237
AZ19631	654762	WMWMILAP_1237
AZ19632	654762	WMWMILAP_1237
AZ19633	654762	WMWMILAP_1237
AZ19634	654568	WMWMILAP_1237
AZ19635	654568	WMWMILAP_1237
AZ19636	654568	WMWMILAP_1237
AZ19637	654568	WMWMILAP_1237
AZ19638	654568	WMWMILAP_1237
AZ19639	654568	WMWMILAP_1237
AZ19640	654568	WMWMILAP_1237
AZ19641	654568	WMWMILAP_1237
AZ19642	654763	WMWMILAP_1237
AZ19643	654763	WMWMILAP_1237
AZ19644	654763	WMWMILAP_1237
AZ19645	654763	WMWMILAP_1237

AZ19646	654763	WMWMILAP_1237
AZ19647	654763	WMWMILAP_1237
AZ19831	654963	WMWMILAP_1237
AZ19832	654963	WMWMILAP_1237
AZ19833	654963	WMWMILAP_1237

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - AZ19618
 - AZ19630
 - AZ19646
 - AZ19831

Anions

Miller Ash Pond

WMWMILAP_1237

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>
AZ19615	655021, 655025, & 654610	WMWMILAP_1237
AZ19616	655021, 655025, & 654610	WMWMILAP_1237
AZ19617	655021, 655025, & 654610	WMWMILAP_1237
AZ19618	655021, 655025, & 654610	WMWMILAP_1237
AZ19619	655021, 655025, & 654610	WMWMILAP_1237
AZ19620	655021, 655025, & 654610	WMWMILAP_1237
AZ19621	655021, 655025, & 654610	WMWMILAP_1237
AZ19622	655021, 655025, & 654610	WMWMILAP_1237
AZ19623	655021, 655025, & 654610	WMWMILAP_1237
AZ19624	655021, 655025, & 654610	WMWMILAP_1237
AZ19625	655022, 655026, & 654611	WMWMILAP_1237
AZ19626	655022, 655026, & 654611	WMWMILAP_1237
AZ19627	655022, 655026, & 654611	WMWMILAP_1237
AZ19628	655022, 655026, & 654611	WMWMILAP_1237
AZ19629	655022, 655026, & 654611	WMWMILAP_1237
AZ19630	655022, 655026, & 654611	WMWMILAP_1237
AZ19631	655022, 655026, & 654611	WMWMILAP_1237
AZ19632	655022, 655026, & 654611	WMWMILAP_1237
AZ19633	655022, 655026, & 654611	WMWMILAP_1237
AZ19634	655022, 655026, & 654611	WMWMILAP_1237
AZ19635	655023, 655027, & 654612	WMWMILAP_1237
AZ19636	655023, 655027, & 654612	WMWMILAP_1237
AZ19637	655023, 655027, & 654612	WMWMILAP_1237
AZ19638	655023, 655027, & 654612	WMWMILAP_1237
AZ19639	655023, 655027, & 654612	WMWMILAP_1237
AZ19640	655023, 655027, & 654612	WMWMILAP_1237
AZ19641	655023, 655027, & 654612	WMWMILAP_1237
AZ19642	655023, 655027, & 654612	WMWMILAP_1237
AZ19643	655023, 655027, & 654612	WMWMILAP_1237
AZ19644	655023, 655027, & 654612	WMWMILAP_1237
AZ19645	655024, 655028, & 654613	WMWMILAP_1237

AZ19646	655024, 655028, & 654613	WMWMILAP_1237
AZ19647	655024, 655028, & 654613	WMWMILAP_1237
AZ19831	655024, 655028, & 654893	WMWMILAP_1237
AZ19832	655024, 655028, & 654893	WMWMILAP_1237
AZ19833	655024, 655028, & 654893	WMWMILAP_1237

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below 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.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ19615	Sulfate	x80
AZ19616	Sulfate	x100
AZ19617	Sulfate	x80
AZ19619	Sulfate & Chloride	x80 & x4
AZ19620	Sulfate & Chloride	x80 & x4
AZ19621	Sulfate & Chloride	x80 & x4
AZ19622	Sulfate & Chloride	x80 & x4
AZ19623	Sulfate	x80
AZ19624	Sulfate	x80
AZ19625	Sulfate & Chloride	x80 & x2
AZ19626	Sulfate & Chloride	x80 & x2
AZ19627	Sulfate	x80
AZ19628	Sulfate	x80
AZ19629	Sulfate	x80
AZ19631	Sulfate & Chloride	x80 & x3
AZ19632	Sulfate	x80
AZ19633	Sulfate	x80
AZ19634	Sulfate	x40
AZ19635	Sulfate & Chloride	x50 & x8
AZ19636	Sulfate & Chloride	x50 & x10
AZ19637	Sulfate & Chloride	x50 & x4
AZ19638	Sulfate	x50
AZ19639	Sulfate	x50
AZ19640	Sulfate	x50
AZ19641	Sulfate	x5
AZ19642	Sulfate	x50
AZ19643	Sulfate	x50
AZ19644	Sulfate & Chloride	x50 & x4
AZ19645	Sulfate	x50
AZ19647	Sulfate	x50
AZ19832	Sulfate & Chloride	x50 & x5
AZ19833	Sulfate & Chloride	x50 & x5

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

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP
Collected: 8/27/19 12:13
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19615

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:03		1.015	0.0869	mg/L	0.03	0.1	J
* Calcium, Total	9/3/19 16:55	9/4/19 13:47		10.15	165	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:03		1.015	0.264	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:22		1.015	0.00211	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 15:22		1.015	0.0555	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:22		1.015	0.00336	mg/L	0.002	0.01	J
* Cobalt, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:22		1.015	0.00563	mg/L	0.002	0.01	J
* Selenium, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	1120	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 09:27	9/5/19 09:27		1	8.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 16:44	9/5/19 16:44		1	0.159	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 14:46	8/30/19 14:46		80	639	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	8/27/19 12:07	8/27/19 12:07			1494.12	uS/cm			FA
pH	8/27/19 12:07	8/27/19 12:07			7.48	SU			FA
Temperature	8/27/19 12:07	8/27/19 12:07			23.34	C			FA
Turbidity	8/27/19 12:07	8/27/19 12:07			6.4	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 12:13
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AZ19615

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 12:13
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-1

Laboratory ID Number: AZ19615

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP
Collected: 8/27/19 14:02
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19616

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:06		1.015	0.192	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 13:50		10.15	251	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:06		1.015	0.257	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:25		1.015	0.00194	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 15:25		1.015	0.0177	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:25		1.015	0.0498	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	2470	mg/L		125	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 09:29	9/5/19 09:29		1	7.95	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 16:45	9/5/19 16:45		1	0.190	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 14:47	8/30/19 14:47		100	1570	mg/L	50.0	100	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	8/27/19 13:58	8/27/19 13:58			2663.22	uS/cm			FA
pH	8/27/19 13:58	8/27/19 13:58			6.25	SU			FA
Temperature	8/27/19 13:58	8/27/19 13:58			22.54	C			FA
Turbidity	8/27/19 13:58	8/27/19 13:58			0.47	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 14:02
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AZ19616

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 14:02
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-2

Laboratory ID Number: AZ19616

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP
Collected: 8/28/19 12:50
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19617

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:09		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/3/19 16:55	9/4/19 13:53		10.15	138	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:09		1.015	0.318	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 15:27		1.015	0.0387	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:27		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	1050	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 09:30	9/5/19 09:30		1	6.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 16:46	9/5/19 16:46		1	0.130	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 14:48	8/30/19 14:48		80	605	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	8/28/19 12:45	8/28/19 12:45			1395.33	uS/cm			FA
pH	8/28/19 12:45	8/28/19 12:45			7.22	SU			FA
Temperature	8/28/19 12:45	8/28/19 12:45			25.01	C			FA
Turbidity	8/28/19 12:45	8/28/19 12:45			6.58	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 12:50
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AZ19617

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 12:50
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-11

Laboratory ID Number: AZ19617

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	20
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank

Location Code: WMWMILAPFB
Collected: 8/28/19 11:14
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19618

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:12		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/3/19 16:55	9/4/19 10:12		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/3/19 16:55	9/4/19 10:12		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:30		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 09:31	9/5/19 09:31		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 16:47	9/5/19 16:47		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 14:49	8/30/19 14:49		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 8/28/19 11:14
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ19618

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 8/28/19 11:14

Customer ID:

Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ19618

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	Limit
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 8/28/19 15:07
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19619

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:15		1.015	0.852	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 13:56		10.15	279	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:15		1.015	0.237	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:33		1.015	0.0107	mg/L	0.001	0.005	
* Barium, Total	9/4/19 17:00	9/5/19 15:33		1.015	0.0158	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:33		1.015	0.0709	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	1370	mg/L		100	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 09:42	9/5/19 09:42		4	47.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 16:48	9/5/19 16:48		1	0.385	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 14:50	8/30/19 14:50		80	818	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	8/28/19 15:03	8/28/19 15:03			1663.35	uS/cm			FA
pH	8/28/19 15:03	8/28/19 15:03			7.08	SU			FA
Temperature	8/28/19 15:03	8/28/19 15:03			17.93	C			FA
Turbidity	8/28/19 15:03	8/28/19 15:03			3.11	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 15:07
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AZ19619

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 15:07
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-5

Laboratory ID Number: AZ19619

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20	
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20	
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	20	
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 DUP

Location Code: WMWMILAP
Collected: 8/28/19 15:07
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19620

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	9/3/19 16:55	9/4/19 10:18		1.015	0.855	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 13:59		10.15	278	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:18		1.015	0.238	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:35		1.015	0.0106	mg/L	0.001	0.005	
* Barium, Total	9/4/19 17:00	9/5/19 15:35		1.015	0.0154	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:35		1.015	0.0692	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:35		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	1360	mg/L		100	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 09:43	9/5/19 09:43		4	45.4	mg/L	2.00	4	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 16:50	9/5/19 16:50		1	0.384	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 14:52	8/30/19 14:52		80	823	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	8/28/19 15:03	8/28/19 15:03			1663.35	uS/cm			FA
pH	8/28/19 15:03	8/28/19 15:03			7.08	SU			FA
Temperature	8/28/19 15:03	8/28/19 15:03			17.93	C			FA
Turbidity	8/28/19 15:03	8/28/19 15:03			3.11	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 15:07
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-5 DUP

Laboratory ID Number: AZ19620

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 15:07
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-5 DUP

Laboratory ID Number: AZ19620

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	20
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-4V

Location Code: WMWMILAP
Collected: 8/27/19 11:18
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19621

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:21		1.015	0.510	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:02		10.15	252	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:21		1.015	0.0788	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:38		1.015	0.00149	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 15:38		1.015	0.0187	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:38		1.015	0.0104	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:38		1.015	0.00763	mg/L	0.002	0.01	J
* Selenium, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:38		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	1190	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 09:44	9/5/19 09:44		4	44.5	mg/L	2.00	4	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 16:51	9/5/19 16:51		1	0.181	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 14:53	8/30/19 14:53		80	706	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	8/27/19 11:14	8/27/19 11:14			1527.44	uS/cm			FA
pH	8/27/19 11:14	8/27/19 11:14			6.38	SU			FA
Temperature	8/27/19 11:14	8/27/19 11:14			19.38	C			FA
Turbidity	8/27/19 11:14	8/27/19 11:14			1.38	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 11:18
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: AZ19621

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 11:18
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: AZ19621

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP
Collected: 8/27/19 12:21
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19622

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:24		1.015	0.495	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:05		10.15	252	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:24		1.015	0.0741	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 15:40		1.015	0.0140	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:40		1.015	0.0157	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:40		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	1120	mg/L		83.3	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 09:45	9/5/19 09:45		4	42.3	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 16:52	9/5/19 16:52		1	0.237	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 14:54	8/30/19 14:54		80	670	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/27/19 12:18	8/27/19 12:18			1440.88	uS/cm			FA
pH	8/27/19 12:18	8/27/19 12:18			6.04	SU			FA
Temperature	8/27/19 12:18	8/27/19 12:18			20.23	C			FA
Turbidity	8/27/19 12:18	8/27/19 12:18			1.88	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 12:21
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AZ19622

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 12:21
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-4

Laboratory ID Number: AZ19622

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-9S

Location Code: WMWMILAP
Collected: 8/27/19 14:10
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19623

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:27		1.015	0.438	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:08		10.15	77.6	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:27		1.015	0.138	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 15:43		1.015	0.0332	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:43		1.015	0.00264	mg/L	0.002	0.005	J
* Lead, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:43		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	892	mg/L		50	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 09:37	9/5/19 09:37		1	7.56	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 16:53	9/5/19 16:53		1	0.173	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 14:55	8/30/19 14:55		80	553	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/27/19 14:06	8/27/19 14:06			1097.09	uS/cm			FA
pH	8/27/19 14:06	8/27/19 14:06			5.53	SU			FA
Temperature	8/27/19 14:06	8/27/19 14:06			19.23	C			FA
Turbidity	8/27/19 14:06	8/27/19 14:06			0.53	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 14:10
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AZ19623

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 14:10
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-9S

Laboratory ID Number: AZ19623

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-9D

Location Code: WMWMILAP
Collected: 8/27/19 15:41
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19624

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:29		1.015	0.750	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:11		10.15	67.7	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:29		1.015	0.0801	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 15:46		1.015	0.00188	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 15:46		1.015	0.0140	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 15:46		1.015	0.0198	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 15:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	774	mg/L		50	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 09:38	9/5/19 09:38		1	10.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 16:54	9/5/19 16:54		1	0.173	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 14:56	8/30/19 14:56		80	490	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/27/19 15:38	8/27/19 15:38			1018.15	uS/cm			FA
pH	8/27/19 15:38	8/27/19 15:38			5.44	SU			FA
Temperature	8/27/19 15:38	8/27/19 15:38			19.98	C			FA
Turbidity	8/27/19 15:38	8/27/19 15:38			0.13	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 15:41
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AZ19624

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ19624	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0974	0.0987	0.0912	0.085 to 0.115	95.5	70 to 130	1.36	20
AZ19624	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.118	0.119	0.105	0.085 to 0.115	104	70 to 130	0.777	20
AZ19624	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.101	0.106	0.108	0.085 to 0.115	101	70 to 130	4.94	20
AZ19624	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.79	1.79	1.02	0.85 to 1.15	104	70 to 130	0.0910	20
AZ19624	Calcium, Total	mg/L	0.00213	0.1518	5.00	72.3	72.5	5.21	4.25 to 5.75	92.5	70 to 130	0.164	20
AZ19624	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.103	0.085 to 0.115	100	70 to 130	1.52	20
AZ19624	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.116	0.117	0.101	0.085 to 0.115	96.3	70 to 130	0.709	20
AZ19624	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0937	0.0946	0.0984	0.085 to 0.115	93.7	70 to 130	0.937	20
AZ19624	Mercury, Total by CVAA	mg/L	0.0000796	0.0005	0.004	0.00447	0.00400	0.00384	0.0034 to 0.0046	112	70 to 130	11.1	20
AZ19624	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.316	0.314	0.200	0.17 to 0.23	118	70 to 130	0.394	20
AZ19624	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0968	0.0987	0.0881	0.085 to 0.115	96.8	70 to 130	1.95	20
AZ19624	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.105	0.107	0.107	0.085 to 0.115	105	70 to 130	2.09	20
AZ19624	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.105	0.106	0.0930	0.085 to 0.115	105	70 to 130	0.532	20
AZ19624	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.0943	0.0967	0.101	0.085 to 0.115	94.3	70 to 130	2.54	20
AZ19624	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.283	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 15:41
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-9D

Laboratory ID Number: AZ19624

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19616	Solids, Dissolved	mg/L	-1.00	25	50.0		2420	49.0	40 to 60	98.0	80 to 120	1.13	5
AZ19624	Chloride	mg/L	0.0242	0.50	10.0	19.8	10.1	10.1	9 to 11	96.0	80 to 120	0.985	20
AZ19624	Fluoride	mg/L	0.0193	0.05	2.50	2.64	0.171	2.59	2.25 to 2.75	98.7	80 to 120	1.16	20
AZ19624	Sulfate	mg/L	-0.379	0.50	1600	2070	505	18.9	18 to 22	98.8	80 to 120	3.02	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-7D

Location Code: WMWMILAP
Collected: 8/28/19 08:55
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19625

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:44		1.015	0.764	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:26		10.15	113	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:44		1.015	0.111	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:01		1.015	0.00197	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:01		1.015	0.0361	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:01		1.015	0.00531	mg/L	0.002	0.01	J
* Selenium, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	660	mg/L		100	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:13	9/5/19 10:13		2	27.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:06	9/5/19 17:06		1	0.106	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:09	8/30/19 15:09		80	371	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/28/19 08:52	8/28/19 08:52			998.18	uS/cm			FA
pH	8/28/19 08:52	8/28/19 08:52			6.58	SU			FA
Temperature	8/28/19 08:52	8/28/19 08:52			17.89	C			FA
Turbidity	8/28/19 08:52	8/28/19 08:52			0.25	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 08:55
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AZ19625

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 08:55
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-7D

Laboratory ID Number: AZ19625

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-7S

Location Code: WMWMILAP
Collected: 8/28/19 10:05
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19626

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:47		1.015	0.743	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:29		10.15	83.7	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:47		1.015	0.158	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:04		1.015	0.00210	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:04		1.015	0.0451	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:04		1.015	0.0349	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	568	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:15	9/5/19 10:15		2	22.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:07	9/5/19 17:07		1	0.221	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:10	8/30/19 15:10		80	258	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	8/28/19 10:02	8/28/19 10:02			882.49	uS/cm			FA
pH	8/28/19 10:02	8/28/19 10:02			6.56	SU			FA
Temperature	8/28/19 10:02	8/28/19 10:02			18.59	C			FA
Turbidity	8/28/19 10:02	8/28/19 10:02			2.22	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 10:05
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AZ19626

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 10:05
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-7S

Laboratory ID Number: AZ19626

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	Limit
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-8S

Location Code: WMWMILAP
Collected: 8/28/19 12:03
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19627

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Boron, Total	9/3/19 16:55	9/4/19 10:50		1.015	2.06	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:32		10.15	56.9	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:50		1.015	0.0292	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 16:07		1.015	0.0217	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:07		1.015	0.0592	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:07		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	712	mg/L		50	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:01	9/5/19 10:01		1	4.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:08	9/5/19 17:08		1	0.565	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:11	8/30/19 15:11		80	366	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/28/19 12:00	8/28/19 12:00			1074.55	uS/cm			FA
pH	8/28/19 12:00	8/28/19 12:00			6.78	SU			FA
Temperature	8/28/19 12:00	8/28/19 12:00			19.21	C			FA
Turbidity	8/28/19 12:00	8/28/19 12:00			0.13	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 12:03
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AZ19627

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 12:03
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-8S

Laboratory ID Number: AZ19627

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5	
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20	
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20	
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-8D

Location Code: WMWMILAP
Collected: 8/28/19 13:05
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19628

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 10:53		1.015	1.05	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:35		10.15	55.2	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:53		1.015	0.0615	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:09		1.015	0.00146	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:09		1.015	0.0323	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:09		1.015	0.00697	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:09		1.015	0.0104	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:09		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 11:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	764	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:03	9/5/19 10:03		1	10.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:09	9/5/19 17:09		1	0.214	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:12	8/30/19 15:12		80	439	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	8/28/19 13:02	8/28/19 13:02			1020.39	uS/cm			FA
pH	8/28/19 13:02	8/28/19 13:02			6.09	SU			FA
Temperature	8/28/19 13:02	8/28/19 13:02			20.70	C			FA
Turbidity	8/28/19 13:02	8/28/19 13:02			0.64	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 13:05
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AZ19628

Sample	Analysis	Units	MB				MS	MSD	LCS	LCS Limit	Rec		Prec Limit
			MB	Limit	Spike						Rec	Limit	
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 13:05
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-8D

Laboratory ID Number: AZ19628

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP
Collected: 8/28/19 16:32
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19629

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	9/3/19 16:55	9/4/19 10:56		1.015	0.0879	mg/L	0.03	0.1	J
* Calcium, Total	9/3/19 16:55	9/4/19 14:38		10.15	63.5	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 10:56		1.015	0.0493	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:12		1.015	0.00129	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:12		1.015	0.314	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:12		1.015	0.00208	mg/L	0.002	0.01	J
* Selenium, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:12		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	446	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:04	9/5/19 10:04		1	9.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:11	9/5/19 17:11		1	0.212	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:13	8/30/19 15:13		80	108	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	8/28/19 16:29	8/28/19 16:29			684.38	uS/cm			FA
pH	8/28/19 16:29	8/28/19 16:29			7.42	SU			FA
Temperature	8/28/19 16:29	8/28/19 16:29			19.57	C			FA
Turbidity	8/28/19 16:29	8/28/19 16:29			2.04	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 16:32
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-21

Laboratory ID Number: AZ19629

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 16:32
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-21

Laboratory ID Number: AZ19629

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	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:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank

Location Code: WMWMILAPFB
Collected: 8/28/19 17:10
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19630

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Boron, Total	9/3/19 16:55	9/4/19 10:59		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/3/19 16:55	9/4/19 10:59		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/3/19 16:55	9/4/19 10:59		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:05	9/5/19 10:05		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:12	9/5/19 17:12		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:15	8/30/19 15:15		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 8/28/19 17:10
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ19630

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 8/28/19 17:10

Customer ID:

Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ19630

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5	
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20	
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20	
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMILAP
Collected: 8/29/19 09:30
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19631

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:02		1.015	0.319	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 11:02		1.015	14.2	mg/L	0.1	0.5	
* Lithium, Total	9/3/19 16:55	9/4/19 11:02		1.015	0.164	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:17		1.015	0.00123	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:17		1.015	0.250	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:17		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	734	mg/L		50	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:16	9/5/19 10:16		3	28.5	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:13	9/5/19 17:13		1	2.07	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:16	8/30/19 15:16		80	92.0	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/29/19 09:26	8/29/19 09:26			1123.25	uS/cm			FA
pH	8/29/19 09:26	8/29/19 09:26			8.26	SU			FA
Temperature	8/29/19 09:26	8/29/19 09:26			23.41	C			FA
Turbidity	8/29/19 09:26	8/29/19 09:26			2.53	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 09:30
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AZ19631

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 09:30
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: AZ19631

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5	
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20	
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20	
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP
Collected: 8/29/19 11:05
Customer ID:
Submittal Date: 8/29/19 15:22

Laboratory ID Number: AZ19632

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:05		1.015	4.10	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:41		10.15	178	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:05		1.015	0.197	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:20		1.015	0.00177	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:20		1.015	0.0185	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:20		1.015	0.158	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:20		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	1550	mg/L		100	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:07	9/5/19 10:07		1	6.65	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:14	9/5/19 17:14		1	0.445	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:17	8/30/19 15:17		80	847	mg/L	40.0	80	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	8/29/19 11:00	8/29/19 11:00			1932.93	uS/cm			FA
pH	8/29/19 11:00	8/29/19 11:00			6.93	SU			FA
Temperature	8/29/19 11:00	8/29/19 11:00			18.32	C			FA
Turbidity	8/29/19 11:00	8/29/19 11:00			0.2	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 11:05
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AZ19632

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 11:05
Customer ID:
Delivery Date: 8/29/19 15:22

Description: Miller Ash Pond - MW-10

Laboratory ID Number: AZ19632

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-10 DUP

Location Code: WMWMILAP
Collected: 8/29/19 11:05
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19633

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:08		1.015	4.04	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 14:44		10.15	200	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:08		1.015	0.195	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:22		1.015	0.00172	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:22		1.015	0.0181	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:22		1.015	0.157	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	1540	mg/L		100	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:09	9/5/19 10:09		1	6.76	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:15	9/5/19 17:15		1	0.448	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:18	8/30/19 15:18		80	851	mg/L	40.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/29/19 11:00	8/29/19 11:00			1932.93	uS/cm			FA
pH	8/29/19 11:00	8/29/19 11:00			6.93	SU			FA
Temperature	8/29/19 11:00	8/29/19 11:00			18.32	C			FA
Turbidity	8/29/19 11:00	8/29/19 11:00			0.2	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 11:05
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-10 DUP

Laboratory ID Number: AZ19633

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 11:05
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-10 DUP

Laboratory ID Number: AZ19633

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19633	Solids, Dissolved	mg/L	2.00	25	50.0		1540	54.0	40 to 60	108	80 to 120	0.130	5
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 8/27/19 10:35
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19634

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:11		1.015	0.0898	mg/L	0.03	0.1	J
* Calcium, Total	9/3/19 16:55	9/4/19 14:47		10.15	48.3	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:11		1.015	0.0831	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/9/19 14:52		1.015	0.495	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	436	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:10	9/5/19 10:10		1	6.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:17	9/5/19 17:17		1	0.160	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:32	8/30/19 15:32		40	83.6	mg/L	20.0	40	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/27/19 10:32	8/27/19 10:32			706.00	uS/cm			FA
pH	8/27/19 10:32	8/27/19 10:32			6.98	SU			FA
Temperature	8/27/19 10:32	8/27/19 10:32			17.63	C			FA
Turbidity	8/27/19 10:32	8/27/19 10:32			0.85	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 10:35
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: AZ19634

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS	Rec		Prec	Limit
			MB	Limit					Limit	Rec	Limit		
AZ19634	Arsenic, Total	mg/L	-0.00000084	0.0001474	0.10	0.0994	0.0995	0.0912	0.085 to 0.115	99.4	70 to 130	0.0783	20
AZ19634	Barium, Total	mg/L	0.00000182	0.0002	0.10	0.584	0.586	0.105	0.085 to 0.115	88.3	70 to 130	0.412	20
AZ19634	Beryllium, Total	mg/L	0.00000506	0.00088	0.10	0.106	0.108	0.108	0.085 to 0.115	106	70 to 130	1.50	20
AZ19634	Boron, Total	mg/L	0.00167	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	103	70 to 130	0.517	20
AZ19634	Calcium, Total	mg/L	0.00213	0.1518	5.00	52.4	52.6	5.21	4.25 to 5.75	81.3	70 to 130	0.480	20
AZ19634	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.107	0.109	0.103	0.085 to 0.115	107	70 to 130	1.46	20
AZ19634	Cobalt, Total	mg/L	-0.00000133	0.0001474	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.827	20
AZ19634	Chromium, Total	mg/L	0.00000936	0.00044	0.10	0.0987	0.100	0.0984	0.085 to 0.115	98.7	70 to 130	1.37	20
AZ19634	Mercury, Total by CVAA	mg/L	0.0000140	0.0005	0.004	0.00391	0.00392	0.00387	0.0034 to 0.0046	97.8	70 to 130	0.0588	20
AZ19634	Lithium, Total	mg/L	-0.0000561	0.0154	0.20	0.317	0.313	0.200	0.17 to 0.23	117	70 to 130	1.07	20
AZ19634	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.103	0.105	0.0881	0.085 to 0.115	103	70 to 130	1.84	20
AZ19634	Lead, Total	mg/L	0.00000105	0.0001474	0.10	0.108	0.110	0.107	0.085 to 0.115	108	70 to 130	1.33	20
AZ19634	Antimony, Total	mg/L	0.000121	0.00066	0.10	0.111	0.113	0.0930	0.085 to 0.115	111	70 to 130	1.53	20
AZ19634	Selenium, Total	mg/L	0.00000394	0.00066	0.10	0.1000	0.100	0.101	0.085 to 0.115	100	70 to 130	0.410	20
AZ19634	Thallium, Total	mg/L	0.00000346	0.0001474	0.10	0.108	0.108	0.105	0.085 to 0.115	108	70 to 130	0.0478	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 10:35
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: AZ19634

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19634	Chloride	mg/L	0.00939	0.50	10.0	16.6	6.37	10.1	9 to 11	102	80 to 120	0.782	20
AZ19634	Fluoride	mg/L	0.0327	0.05	2.50	2.71	0.164	2.57	2.25 to 2.75	102	80 to 120	2.47	20
AZ19634	Sulfate	mg/L	-0.374	0.50	800	841	78.5	18.7	18 to 22	94.7	80 to 120	6.29	20
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 8/27/19 13:06
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19635

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:32		1.015	0.299	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 11:32		1.015	16.0	mg/L	0.1	0.5	
* Lithium, Total	9/3/19 16:55	9/4/19 11:32		1.015	0.230	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 16:46		1.015	0.0361	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:46		1.015	0.0131	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	937	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:38	9/5/19 10:38		8	58.9	mg/L	4.00	8	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:28	9/5/19 17:28		1	0.260	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:46	8/30/19 15:46		50	427	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/27/19 13:02	8/27/19 13:02			1495.26	uS/cm			FA
pH	8/27/19 13:02	8/27/19 13:02			7.28	SU			FA
Temperature	8/27/19 13:02	8/27/19 13:02			22.66	C			FA
Turbidity	8/27/19 13:02	8/27/19 13:02			0.32	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 13:06
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: AZ19635

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Limit	Prec			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 13:06
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: AZ19635

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP
Collected: 8/27/19 14:52
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19636

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:35		1.015	0.209	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 11:35		1.015	9.68	mg/L	0.1	0.5	
* Lithium, Total	9/3/19 16:55	9/4/19 11:35		1.015	0.246	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:49		1.015	0.00222	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 16:49		1.015	0.395	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:49		1.015	0.0557	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:49		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	837	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:39	9/5/19 10:39		10	145	mg/L	5.00	10	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:29	9/5/19 17:29		1	0.294	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:47	8/30/19 15:47		50	248	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/27/19 14:47	8/27/19 14:47			1274.93	uS/cm			FA
pH	8/27/19 14:47	8/27/19 14:47			9.23	SU			FA
Temperature	8/27/19 14:47	8/27/19 14:47			20.05	C			FA
Turbidity	8/27/19 14:47	8/27/19 14:47			1.5	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 14:52
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AZ19636

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Limit	Prec			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 14:52
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: AZ19636

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP
Collected: 8/27/19 16:14
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19637

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:38		1.015	0.443	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:01		10.15	189	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:38		1.015	0.115	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:51		1.015	0.0111	mg/L	0.001	0.005	
* Barium, Total	9/4/19 17:00	9/5/19 16:51		1.015	0.0334	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:51		1.015	0.00562	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:51		1.015	0.0260	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:51		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	960	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:40	9/5/19 10:40		4	34.7	mg/L	2.00	4	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:30	9/5/19 17:30		1	0.361	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:48	8/30/19 15:48		50	529	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/27/19 16:11	8/27/19 16:11			1331.54	uS/cm			FA
pH	8/27/19 16:11	8/27/19 16:11			6.84	SU			FA
Temperature	8/27/19 16:11	8/27/19 16:11			19.36	C			FA
Turbidity	8/27/19 16:11	8/27/19 16:11			7.33	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 16:14
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AZ19637

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Limit	Prec			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/27/19 16:14
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: AZ19637

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5	
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 8/28/19 09:39
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19638

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:41		1.015	0.863	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:04		10.15	53.8	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:41		1.015	0.0199	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 16:54		1.015	0.0424	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:54		1.015	0.00210	mg/L	0.002	0.005	J
* Lead, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:54		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	397	mg/L		25	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:30	9/5/19 10:30		1	19.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:31	9/5/19 17:31		1	0.0974	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:49	8/30/19 15:49		50	227	mg/L	25.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/28/19 09:36	8/28/19 09:36			481.45	uS/cm			FA
pH	8/28/19 09:36	8/28/19 09:36			6.38	SU			FA
Temperature	8/28/19 09:36	8/28/19 09:36			19.95	C			FA
Turbidity	8/28/19 09:36	8/28/19 09:36			9.85	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 09:39
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AZ19638

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 09:39
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-15

Laboratory ID Number: AZ19638

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5	
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 8/28/19 10:37
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19639

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:44		1.015	3.18	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:07		10.15	99.5	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:44		1.015	0.0555	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 16:57		1.015	0.0208	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:57		1.015	0.00216	mg/L	0.002	0.005	J
* Lead, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:57		1.015	0.107	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:57		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	642	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:32	9/5/19 10:32		1	10.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:33	9/5/19 17:33		1	0.290	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:50	8/30/19 15:50		50	384	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/28/19 10:34	8/28/19 10:34			851.93	uS/cm			FA
pH	8/28/19 10:34	8/28/19 10:34			6.34	SU			FA
Temperature	8/28/19 10:34	8/28/19 10:34			19.70	C			FA
Turbidity	8/28/19 10:34	8/28/19 10:34			0.22	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 10:37
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AZ19639

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit		
			MB	Limit					Rec	Limit				
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115		97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115		111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115		101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15		104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75		151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115		106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115		98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115		95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046		91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23		121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115		101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115		106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115		109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115		96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115		106	70 to 130	1.25	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 10:37
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-16

Laboratory ID Number: AZ19639

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-16 DUP

Location Code: WMWMILAP
Collected: 8/28/19 10:37
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19640

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:47		1.015	3.17	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:10		10.15	98.0	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:47		1.015	0.0554	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 16:59		1.015	0.0217	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 16:59		1.015	0.00213	mg/L	0.002	0.005	J
* Lead, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 16:59		1.015	0.110	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 16:59		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	652	mg/L		50	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:33	9/5/19 10:33		1	10.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:34	9/5/19 17:34		1	0.295	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:52	8/30/19 15:52		50	371	mg/L	25.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/28/19 10:34	8/28/19 10:34			851.93	uS/cm			FA
pH	8/28/19 10:34	8/28/19 10:34			6.34	SU			FA
Temperature	8/28/19 10:34	8/28/19 10:34			19.70	C			FA
Turbidity	8/28/19 10:34	8/28/19 10:34			0.22	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 10:37
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-16 DUP

Laboratory ID Number: AZ19640

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Limit	Prec			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 10:37
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-16 DUP

Laboratory ID Number: AZ19640

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5	
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-14

Location Code: WMWMILAP
Collected: 8/28/19 11:56
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19641

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:50		1.015	0.126	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 11:50		1.015	36.5	mg/L	0.1	0.5	
* Lithium, Total	9/3/19 16:55	9/4/19 11:50		1.015	0.0213	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 17:02		1.015	0.0784	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:02		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/30/19 09:53	9/3/19 14:15		1	213	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:34	9/5/19 10:34		1	7.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:35	9/5/19 17:35		1	0.192	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 16:00	8/30/19 16:00		5	51.8	mg/L	2.50	5	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/28/19 11:52	8/28/19 11:52			305.09	uS/cm			FA
pH	8/28/19 11:52	8/28/19 11:52			6.31	SU			FA
Temperature	8/28/19 11:52	8/28/19 11:52			18.83	C			FA
Turbidity	8/28/19 11:52	8/28/19 11:52			3.47	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 11:56
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AZ19641

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 11:56
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-14

Laboratory ID Number: AZ19641

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19635	Solids, Dissolved	mg/L	-1.00	25	50.0		927	49.0	40 to 60	98.0	80 to 120	0.537	5	
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP
Collected: 8/28/19 13:21
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19642

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 11:53		1.015	7.06	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:13		10.15	152	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:53		1.015	0.158	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:04		1.015	0.00297	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 17:04		1.015	0.0177	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/9/19 14:50		1.015	0.646	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	2850	mg/L		250	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 10:35	9/5/19 10:35		1	7.27	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:36	9/5/19 17:36		1	0.916	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 15:54	8/30/19 15:54		50	1780	mg/L	25.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/28/19 13:17	8/28/19 13:17			3395.44	uS/cm			FA
pH	8/28/19 13:17	8/28/19 13:17			6.63	SU			FA
Temperature	8/28/19 13:17	8/28/19 13:17			22.22	C			FA
Turbidity	8/28/19 13:17	8/28/19 13:17			0.38	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 13:21
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AZ19642

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 8/28/19 13:21

Customer ID:

Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-12

Laboratory ID Number: AZ19642

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20	
AZ19647	Solids, Dissolved	mg/L	2.00	25	50.0		323	54.0	40 to 60	108	80 to 120	0.00	5	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 8/28/19 15:25
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19643

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	9/3/19 16:55	9/4/19 11:56		1.015	0.379	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:16		10.15	89.2	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 11:56		1.015	0.100	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:07		1.015	0.0151	mg/L	0.001	0.005	
* Barium, Total	9/4/19 17:00	9/5/19 17:07		1.015	0.0614	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:07		1.015	0.00361	mg/L	0.002	0.01	J
* Cobalt, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:07		1.015	0.00782	mg/L	0.002	0.01	J
* Selenium, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:07		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	560	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:36	9/5/19 10:36		1	18.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:37	9/5/19 17:37		1	0.155	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:55	8/30/19 15:55		50	228	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/28/19 15:19	8/28/19 15:19			801.33	uS/cm			FA
pH	8/28/19 15:19	8/28/19 15:19			7.34	SU			FA
Temperature	8/28/19 15:19	8/28/19 15:19			23.73	C			FA
Turbidity	8/28/19 15:19	8/28/19 15:19			3.13	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 15:25
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: AZ19643

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS	Rec		Prec	Limit		
			MB	Limit					Rec	Limit				
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115		97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115		111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115		101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15		104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75		151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115		106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115		98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115		95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046		91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23		121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115		101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115		106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115		109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115		96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115		106	70 to 130	1.25	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 15:25
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: AZ19643

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20	
AZ19647	Solids, Dissolved	mg/L	2.00	25	50.0		323	54.0	40 to 60	108	80 to 120	0.00	5	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 8/28/19 16:56
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19644

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	9/3/19 16:55	9/4/19 11:59		1.015	0.906	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:19		10.15	148	mg/L	1.015	5.075	RA
* Lithium, Total	9/3/19 16:55	9/4/19 11:59		1.015	0.0853	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 17:10		1.015	0.0269	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:10		1.015	0.0283	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:10		1.015	0.00285	mg/L	0.002	0.01	J
* Selenium, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:10		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 12:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	903	mg/L		83.3	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 10:58	9/5/19 10:58		4	32.5	mg/L	2.00	4	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:39	9/5/19 17:39		1	0.105	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 15:56	8/30/19 15:56		50	609	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	8/28/19 16:52	8/28/19 16:52			981.86	uS/cm			FA
pH	8/28/19 16:52	8/28/19 16:52			5.98	SU			FA
Temperature	8/28/19 16:52	8/28/19 16:52			20.70	C			FA
Turbidity	8/28/19 16:52	8/28/19 16:52			0.1	NTU			FA

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

Comments: Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 9/30/19

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 16:56
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AZ19644

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ19644	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0973	0.0966	0.0884	0.085 to 0.115	97.3	70 to 130	0.668	20
AZ19644	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.138	0.136	0.113	0.085 to 0.115	111	70 to 130	1.72	20
AZ19644	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.801	20
AZ19644	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.95	1.92	1.00	0.85 to 1.15	104	70 to 130	1.11	20
AZ19644	Calcium, Total	mg/L	0.00149	0.1518	5.00	155	154	5.33	4.25 to 5.75	151	70 to 130	0.898	20
AZ19644	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.106	0.104	0.108	0.085 to 0.115	106	70 to 130	1.81	20
AZ19644	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.127	0.126	0.103	0.085 to 0.115	98.6	70 to 130	0.964	20
AZ19644	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0955	0.0943	0.0988	0.085 to 0.115	95.5	70 to 130	1.25	20
AZ19644	Mercury, Total by CVAA	mg/L	0.0000124	0.0005	0.004	0.00366	0.00374	0.00392	0.0034 to 0.0046	91.5	70 to 130	2.23	20
AZ19644	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.327	0.324	0.200	0.17 to 0.23	121	70 to 130	1.02	20
AZ19644	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.103	0.103	0.0916	0.085 to 0.115	101	70 to 130	0.719	20
AZ19644	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.106	0.105	0.107	0.085 to 0.115	106	70 to 130	1.31	20
AZ19644	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.109	0.108	0.0978	0.085 to 0.115	109	70 to 130	1.53	20
AZ19644	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0968	0.0972	0.0957	0.085 to 0.115	96.8	70 to 130	0.496	20
AZ19644	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.105	0.109	0.085 to 0.115	106	70 to 130	1.25	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: Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 9/30/19

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/28/19 16:56
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-6

Laboratory ID Number: AZ19644

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19644	Chloride	mg/L	-0.0149	0.50	40.0	72.7	32.6	10.1	9 to 11	100	80 to 120	0.307	20	
AZ19644	Fluoride	mg/L	0.023	0.05	2.50	2.74	0.104	2.61	2.25 to 2.75	105	80 to 120	0.957	20	
AZ19644	Sulfate	mg/L	-0.371	0.50	1000	1460	523	18.8	18 to 22	85.1	80 to 120	15.2	20	
AZ19647	Solids, Dissolved	mg/L	2.00	25	50.0		323	54.0	40 to 60	108	80 to 120	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: Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 9/30/19

Certificate Of Analysis

Description: Miller Ash Pond - MW-13D

Location Code: WMWMILAP
Collected: 8/29/19 09:00
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19645

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 12:21		1.015	0.0961	mg/L	0.03	0.1	J
* Calcium, Total	9/3/19 16:55	9/4/19 15:28		10.15	47.3	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 12:21		1.015	0.0432	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:25		1.015	0.00296	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 17:25		1.015	0.0876	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:25		1.015	0.00264	mg/L	0.002	0.01	J
* Cobalt, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 13:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	307	mg/L		25	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 11:39	9/5/19 11:39		1	13.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:51	9/5/19 17:51		1	0.144	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 16:10	8/30/19 16:10		50	82.7	mg/L	25.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/29/19 08:57	8/29/19 08:57			432.08	uS/cm			FA
pH	8/29/19 08:57	8/29/19 08:57			6.80	SU			FA
Temperature	8/29/19 08:57	8/29/19 08:57			19.24	C			FA
Turbidity	8/29/19 08:57	8/29/19 08:57			2.33	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 09:00
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AZ19645

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AZ19647	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.11	1.13	1.00	0.85 to 1.15		100	70 to 130		1.36	20
AZ19647	Calcium, Total	mg/L	0.00149	0.1518	5.00	22.8	22.9	5.33	4.25 to 5.75		104	70 to 130		0.613	20
AZ19647	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.298	0.298	0.200	0.17 to 0.23		107	70 to 130		0.101	20
AZ19833	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0968	0.0949	0.0884	0.085 to 0.115		95.8	70 to 130		2.03	20
AZ19833	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.143	0.142	0.113	0.085 to 0.115		107	70 to 130		1.18	20
AZ19833	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.103	0.105	0.103	0.085 to 0.115		103	70 to 130		1.61	20
AZ19833	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.101	0.100	0.108	0.085 to 0.115		101	70 to 130		0.861	20
AZ19833	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.0980	0.0954	0.103	0.085 to 0.115		98.0	70 to 130		2.70	20
AZ19833	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0937	0.0919	0.0988	0.085 to 0.115		93.7	70 to 130		2.01	20
AZ19833	Mercury, Total by CVAA	mg/L	0.0000119	0.0005	0.004	0.00378	0.00385	0.00394	0.0034 to 0.0046		94.6	70 to 130		1.63	20
AZ19833	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.153	0.149	0.0916	0.085 to 0.115		98.0	70 to 130		2.51	20
AZ19833	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.107	0.107	0.107	0.085 to 0.115		107	70 to 130		0.154	20
AZ19833	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.106	0.104	0.0978	0.085 to 0.115		106	70 to 130		1.47	20
AZ19833	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0953	0.0943	0.0957	0.085 to 0.115		95.3	70 to 130		1.01	20
AZ19833	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.107	0.109	0.085 to 0.115		106	70 to 130		1.23	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 09:00
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-13D

Laboratory ID Number: AZ19645

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19647	Sulfate	mg/L	-0.311	0.50	1000	1080	138	18.7	18 to 22	94.3	80 to 120	0.727	20
AZ19647	Solids, Dissolved	mg/L	2.00	25	50.0		323	54.0	40 to 60	108	80 to 120	0.00	5
AZ19833	Chloride	mg/L	-0.000335	0.50	50.0	94.3	44.4	10.1	9 to 11	101	80 to 120	1.36	20
AZ19833	Fluoride	mg/L	0.0257	0.05	2.50	2.90	0.291	2.59	2.25 to 2.75	105	80 to 120	4.21	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:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank

Location Code: WMWMILAPFB
Collected: 8/29/19 11:05
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19646

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 12:24		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/3/19 16:55	9/4/19 12:24		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/3/19 16:55	9/4/19 12:24		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:28		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 13:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 11:40	9/5/19 11:40		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:52	9/5/19 17:52		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	8/30/19 16:12	8/30/19 16:12		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 8/29/19 11:05
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ19646

Sample	Analysis	Units	MB				LCS			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AZ19647	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.11	1.13	1.00	0.85 to 1.15	100	70 to 130	1.36	20
AZ19647	Calcium, Total	mg/L	0.00149	0.1518	5.00	22.8	22.9	5.33	4.25 to 5.75	104	70 to 130	0.613	20
AZ19647	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.298	0.298	0.200	0.17 to 0.23	107	70 to 130	0.101	20
AZ19833	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0968	0.0949	0.0884	0.085 to 0.115	95.8	70 to 130	2.03	20
AZ19833	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.143	0.142	0.113	0.085 to 0.115	107	70 to 130	1.18	20
AZ19833	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.103	0.105	0.103	0.085 to 0.115	103	70 to 130	1.61	20
AZ19833	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.101	0.100	0.108	0.085 to 0.115	101	70 to 130	0.861	20
AZ19833	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.0980	0.0954	0.103	0.085 to 0.115	98.0	70 to 130	2.70	20
AZ19833	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0937	0.0919	0.0988	0.085 to 0.115	93.7	70 to 130	2.01	20
AZ19833	Mercury, Total by CVAA	mg/L	0.0000119	0.0005	0.004	0.00378	0.00385	0.00394	0.0034 to 0.0046	94.6	70 to 130	1.63	20
AZ19833	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.153	0.149	0.0916	0.085 to 0.115	98.0	70 to 130	2.51	20
AZ19833	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.107	0.107	0.107	0.085 to 0.115	107	70 to 130	0.154	20
AZ19833	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.106	0.104	0.0978	0.085 to 0.115	106	70 to 130	1.47	20
AZ19833	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0953	0.0943	0.0957	0.085 to 0.115	95.3	70 to 130	1.01	20
AZ19833	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.107	0.109	0.085 to 0.115	106	70 to 130	1.23	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:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 8/29/19 11:05

Customer ID:

Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond Field Blank

Laboratory ID Number: AZ19646

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19647	Sulfate	mg/L	-0.311	0.50	1000	1080	138	18.7	18 to 22	94.3	80 to 120	0.727	20	
AZ19647	Solids, Dissolved	mg/L	2.00	25	50.0		323	54.0	40 to 60	108	80 to 120	0.00	5	
AZ19833	Chloride	mg/L	-0.000335	0.50	50.0	94.3	44.4	10.1	9 to 11	101	80 to 120	1.36	20	
AZ19833	Fluoride	mg/L	0.0257	0.05	2.50	2.90	0.291	2.59	2.25 to 2.75	105	80 to 120	4.21	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-13S

Location Code: WMWMILAP
Collected: 8/29/19 11:13
Customer ID:
Submittal Date: 8/29/19 15:23

Laboratory ID Number: AZ19647

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 12:27		1.015	0.110	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 12:27		1.015	17.6	mg/L	0.1	0.5	
* Lithium, Total	9/3/19 16:55	9/4/19 12:27		1.015	0.0845	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:31		1.015	0.00453	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 17:31		1.015	0.0247	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:31		1.015	0.0228	mg/L	0.002	0.005	
* Lead, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 13:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/3/19 13:50	9/5/19 08:30		1	323	mg/L		25	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 11:41	9/5/19 11:41		1	9.33	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:53	9/5/19 17:53		1	0.103	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	8/30/19 16:13	8/30/19 16:13		50	137	mg/L	25.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/29/19 11:07	8/29/19 11:07			400.13	uS/cm			FA
pH	8/29/19 11:07	8/29/19 11:07			5.67	SU			FA
Temperature	8/29/19 11:07	8/29/19 11:07			18.64	C			FA
Turbidity	8/29/19 11:07	8/29/19 11:07			2.17	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 11:13
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AZ19647

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AZ19647	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.11	1.13	1.00	0.85 to 1.15	100	70 to 130	1.36	20
AZ19647	Calcium, Total	mg/L	0.00149	0.1518	5.00	22.8	22.9	5.33	4.25 to 5.75	104	70 to 130	0.613	20
AZ19647	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.298	0.298	0.200	0.17 to 0.23	107	70 to 130	0.101	20
AZ19833	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0968	0.0949	0.0884	0.085 to 0.115	95.8	70 to 130	2.03	20
AZ19833	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.143	0.142	0.113	0.085 to 0.115	107	70 to 130	1.18	20
AZ19833	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.103	0.105	0.103	0.085 to 0.115	103	70 to 130	1.61	20
AZ19833	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.101	0.100	0.108	0.085 to 0.115	101	70 to 130	0.861	20
AZ19833	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.0980	0.0954	0.103	0.085 to 0.115	98.0	70 to 130	2.70	20
AZ19833	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0937	0.0919	0.0988	0.085 to 0.115	93.7	70 to 130	2.01	20
AZ19833	Mercury, Total by CVAA	mg/L	0.0000119	0.0005	0.004	0.00378	0.00385	0.00394	0.0034 to 0.0046	94.6	70 to 130	1.63	20
AZ19833	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.153	0.149	0.0916	0.085 to 0.115	98.0	70 to 130	2.51	20
AZ19833	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.107	0.107	0.107	0.085 to 0.115	107	70 to 130	0.154	20
AZ19833	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.106	0.104	0.0978	0.085 to 0.115	106	70 to 130	1.47	20
AZ19833	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0953	0.0943	0.0957	0.085 to 0.115	95.3	70 to 130	1.01	20
AZ19833	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.107	0.109	0.085 to 0.115	106	70 to 130	1.23	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:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 8/29/19 11:13
Customer ID:
Delivery Date: 8/29/19 15:23

Description: Miller Ash Pond - MW-13S

Laboratory ID Number: AZ19647

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ19647	Sulfate	mg/L	-0.311	0.50	1000	1080	138	18.7	18 to 22	94.3	80 to 120	0.727	20
AZ19647	Solids, Dissolved	mg/L	2.00	25	50.0		323	54.0	40 to 60	108	80 to 120	0.00	5
AZ19833	Chloride	mg/L	-0.000335	0.50	50.0	94.3	44.4	10.1	9 to 11	101	80 to 120	1.36	20
AZ19833	Fluoride	mg/L	0.0257	0.05	2.50	2.90	0.291	2.59	2.25 to 2.75	105	80 to 120	4.21	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank

Location Code: WMWMILAPEB
Collected: 9/3/19 10:31
Customer ID:
Submittal Date: 9/3/19 15:49

Laboratory ID Number: AZ19831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 12:36		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/3/19 16:55	9/4/19 12:36		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/3/19 16:55	9/4/19 12:36		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 13:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/5/19 12:50	9/9/19 13:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 11:42	9/5/19 11:42		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:54	9/5/19 17:54		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	9/4/19 10:21	9/4/19 10:21		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB
Sample Date: 9/3/19 10:31
Customer ID:
Delivery Date: 9/3/19 15:49

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ19831

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AZ19647	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.11	1.13	1.00	0.85 to 1.15	100	70 to 130	1.36	20
AZ19647	Calcium, Total	mg/L	0.00149	0.1518	5.00	22.8	22.9	5.33	4.25 to 5.75	104	70 to 130	0.613	20
AZ19647	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.298	0.298	0.200	0.17 to 0.23	107	70 to 130	0.101	20
AZ19833	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0968	0.0949	0.0884	0.085 to 0.115	95.8	70 to 130	2.03	20
AZ19833	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.143	0.142	0.113	0.085 to 0.115	107	70 to 130	1.18	20
AZ19833	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.103	0.105	0.103	0.085 to 0.115	103	70 to 130	1.61	20
AZ19833	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.101	0.100	0.108	0.085 to 0.115	101	70 to 130	0.861	20
AZ19833	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.0980	0.0954	0.103	0.085 to 0.115	98.0	70 to 130	2.70	20
AZ19833	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0937	0.0919	0.0988	0.085 to 0.115	93.7	70 to 130	2.01	20
AZ19833	Mercury, Total by CVAA	mg/L	0.0000119	0.0005	0.004	0.00378	0.00385	0.00394	0.0034 to 0.0046	94.6	70 to 130	1.63	20
AZ19833	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.153	0.149	0.0916	0.085 to 0.115	98.0	70 to 130	2.51	20
AZ19833	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.107	0.107	0.107	0.085 to 0.115	107	70 to 130	0.154	20
AZ19833	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.106	0.104	0.0978	0.085 to 0.115	106	70 to 130	1.47	20
AZ19833	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0953	0.0943	0.0957	0.085 to 0.115	95.3	70 to 130	1.01	20
AZ19833	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.107	0.109	0.085 to 0.115	106	70 to 130	1.23	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:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 9/3/19 10:31

Customer ID:

Delivery Date: 9/3/19 15:49

Description: Miller Ash Pond Equipment Blank

Laboratory ID Number: AZ19831

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19833	Chloride	mg/L	-0.000335	0.50	50.0	94.3	44.4	10.1	9 to 11	101	80 to 120	1.36	20	
AZ19833	Fluoride	mg/L	0.0257	0.05	2.50	2.90	0.291	2.59	2.25 to 2.75	105	80 to 120	4.21	20	
AZ19833	Sulfate	mg/L	-0.299	0.50	1000	1800	806	19.1	18 to 22	98.0	80 to 120	1.72	20	
AZ19833	Solids, Dissolved	mg/L	0.0000	25	50.0		1330	50.0	40 to 60	100	80 to 120	0.452	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMILAP
Collected: 9/3/19 11:30
Customer ID:
Submittal Date: 9/3/19 15:49

Laboratory ID Number: AZ19832

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 12:39		1.015	0.610	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:31		10.15	161	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 12:39		1.015	0.0973	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/4/19 17:00	9/5/19 17:36		1.015	0.0425	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:36		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 13:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/5/19 12:50	9/9/19 13:45		1	929	mg/L		71.4	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/5/19 11:44	9/5/19 11:44		5	36.8	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	9/5/19 17:55	9/5/19 17:55		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	9/4/19 10:22	9/4/19 10:22		50	529	mg/L	25.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/3/19 11:25	9/3/19 11:25			1102.11	uS/cm			FA
pH	9/3/19 11:25	9/3/19 11:25			6.34	SU			FA
Temperature	9/3/19 11:25	9/3/19 11:25			17.75	C			FA
Turbidity	9/3/19 11:25	9/3/19 11:25			1.6	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/3/19 11:30
Customer ID:
Delivery Date: 9/3/19 15:49

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: AZ19832

Sample	Analysis	Units	MB				LCS			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit		
AZ19647	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.11	1.13	1.00	0.85 to 1.15	100	70 to 130	1.36	20
AZ19647	Calcium, Total	mg/L	0.00149	0.1518	5.00	22.8	22.9	5.33	4.25 to 5.75	104	70 to 130	0.613	20
AZ19647	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.298	0.298	0.200	0.17 to 0.23	107	70 to 130	0.101	20
AZ19833	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0968	0.0949	0.0884	0.085 to 0.115	95.8	70 to 130	2.03	20
AZ19833	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.143	0.142	0.113	0.085 to 0.115	107	70 to 130	1.18	20
AZ19833	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.103	0.105	0.103	0.085 to 0.115	103	70 to 130	1.61	20
AZ19833	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.101	0.100	0.108	0.085 to 0.115	101	70 to 130	0.861	20
AZ19833	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.0980	0.0954	0.103	0.085 to 0.115	98.0	70 to 130	2.70	20
AZ19833	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0937	0.0919	0.0988	0.085 to 0.115	93.7	70 to 130	2.01	20
AZ19833	Mercury, Total by CVAA	mg/L	0.0000119	0.0005	0.004	0.00378	0.00385	0.00394	0.0034 to 0.0046	94.6	70 to 130	1.63	20
AZ19833	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.153	0.149	0.0916	0.085 to 0.115	98.0	70 to 130	2.51	20
AZ19833	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.107	0.107	0.107	0.085 to 0.115	107	70 to 130	0.154	20
AZ19833	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.106	0.104	0.0978	0.085 to 0.115	106	70 to 130	1.47	20
AZ19833	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0953	0.0943	0.0957	0.085 to 0.115	95.3	70 to 130	1.01	20
AZ19833	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.107	0.109	0.085 to 0.115	106	70 to 130	1.23	20

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

Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 9/3/19 11:30

Customer ID:

Delivery Date: 9/3/19 15:49

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: AZ19832

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19833	Chloride	mg/L	-0.000335	0.50	50.0	94.3	44.4	10.1	9 to 11	101	80 to 120	1.36	20	
AZ19833	Fluoride	mg/L	0.0257	0.05	2.50	2.90	0.291	2.59	2.25 to 2.75	105	80 to 120	4.21	20	
AZ19833	Sulfate	mg/L	-0.299	0.50	1000	1800	806	19.1	18 to 22	98.0	80 to 120	1.72	20	
AZ19833	Solids, Dissolved	mg/L	0.0000	25	50.0		1330	50.0	40 to 60	100	80 to 120	0.452	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:

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMILAP
Collected: 9/3/19 12:38
Customer ID:
Submittal Date: 9/3/19 15:49

Laboratory ID Number: AZ19833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/3/19 16:55	9/4/19 12:42		1.015	0.751	mg/L	0.03	0.1	
* Calcium, Total	9/3/19 16:55	9/4/19 15:34		10.15	240	mg/L	1.015	5.075	
* Lithium, Total	9/3/19 16:55	9/4/19 12:42		1.015	0.278	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/4/19 17:00	9/5/19 17:39		1.015	0.00104	mg/L	0.001	0.005	J
* Barium, Total	9/4/19 17:00	9/5/19 17:39		1.015	0.0361	mg/L	0.002	0.01	
* Beryllium, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/4/19 17:00	9/5/19 17:39		1.015	0.0550	mg/L	0.002	0.01	
* Selenium, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/4/19 17:00	9/5/19 17:39		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	9/4/19 09:08	9/5/19 13:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/5/19 12:50	9/9/19 13:45		1	1320	mg/L		100	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	9/5/19 11:45	9/5/19 11:45		5	43.8	mg/L	2.50	5	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	9/5/19 17:57	9/5/19 17:57		1	0.279	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/4/19 10:23	9/4/19 10:23		50	820	mg/L	25.0	50	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/3/19 12:34	9/3/19 12:34			1583.41	uS/cm			FA
pH	9/3/19 12:34	9/3/19 12:34			7.49	SU			FA
Temperature	9/3/19 12:34	9/3/19 12:34			19.54	C			FA
Turbidity	9/3/19 12:34	9/3/19 12:34			4.87	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/3/19 12:38
Customer ID:
Delivery Date: 9/3/19 15:49

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: AZ19833

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AZ19647	Boron, Total	mg/L	0.00174	0.0650254	1.00	1.11	1.13	1.00	0.85 to 1.15	100	70 to 130	1.36	20
AZ19647	Calcium, Total	mg/L	0.00149	0.1518	5.00	22.8	22.9	5.33	4.25 to 5.75	104	70 to 130	0.613	20
AZ19647	Lithium, Total	mg/L	-0.0000668	0.0154	0.20	0.298	0.298	0.200	0.17 to 0.23	107	70 to 130	0.101	20
AZ19833	Arsenic, Total	mg/L	0.0000208	0.0001474	0.10	0.0968	0.0949	0.0884	0.085 to 0.115	95.8	70 to 130	2.03	20
AZ19833	Barium, Total	mg/L	0.0000178	0.0002	0.10	0.143	0.142	0.113	0.085 to 0.115	107	70 to 130	1.18	20
AZ19833	Beryllium, Total	mg/L	0.00000720	0.00088	0.10	0.103	0.105	0.103	0.085 to 0.115	103	70 to 130	1.61	20
AZ19833	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.101	0.100	0.108	0.085 to 0.115	101	70 to 130	0.861	20
AZ19833	Cobalt, Total	mg/L	0.00000049	0.0001474	0.10	0.0980	0.0954	0.103	0.085 to 0.115	98.0	70 to 130	2.70	20
AZ19833	Chromium, Total	mg/L	-0.0000262	0.00044	0.10	0.0937	0.0919	0.0988	0.085 to 0.115	93.7	70 to 130	2.01	20
AZ19833	Mercury, Total by CVAA	mg/L	0.0000119	0.0005	0.004	0.00378	0.00385	0.00394	0.0034 to 0.0046	94.6	70 to 130	1.63	20
AZ19833	Molybdenum, Total	mg/L	0.0000218	0.0001474	0.10	0.153	0.149	0.0916	0.085 to 0.115	98.0	70 to 130	2.51	20
AZ19833	Lead, Total	mg/L	0.00000887	0.0001474	0.10	0.107	0.107	0.107	0.085 to 0.115	107	70 to 130	0.154	20
AZ19833	Antimony, Total	mg/L	0.000179	0.00066	0.10	0.106	0.104	0.0978	0.085 to 0.115	106	70 to 130	1.47	20
AZ19833	Selenium, Total	mg/L	-0.00000343	0.00066	0.10	0.0953	0.0943	0.0957	0.085 to 0.115	95.3	70 to 130	1.01	20
AZ19833	Thallium, Total	mg/L	0.00000286	0.0001474	0.10	0.106	0.107	0.109	0.085 to 0.115	106	70 to 130	1.23	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:

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 9/3/19 12:38

Customer ID:

Delivery Date: 9/3/19 15:49

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: AZ19833

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ19833	Chloride	mg/L	-0.000335	0.50	50.0	94.3	44.4	10.1	9 to 11	101	80 to 120	1.36	20	
AZ19833	Fluoride	mg/L	0.0257	0.05	2.50	2.90	0.291	2.59	2.25 to 2.75	105	80 to 120	4.21	20	
AZ19833	Sulfate	mg/L	-0.299	0.50	1000	1800	806	19.1	18 to 22	98.0	80 to 120	1.72	20	
AZ19833	Solids, Dissolved	mg/L	0.0000	25	50.0		1330	50.0	40 to 60	100	80 to 120	0.452	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:

Definitions

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **08/29/2019 14:25**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4V	8/27/19	11:18	4	Groundwater		AZ19621
MW-4	08/27/2019	12:21	4	Groundwater		AZ19622
MW-9S	08/27/2019	14:10	4	Groundwater		AZ19623
MW-9D	08/27/2019	15:41	4	Groundwater		AZ19624
MW-7D	08/28/2019	08:55	4	Groundwater		AZ19625
MW-7S	08/28/2019	10:05	4	Groundwater		AZ19626
MW-8S	08/28/2019	12:03	4	Groundwater		AZ19627
MW-8D	08/28/2019	13:05	4	Groundwater		AZ19628
MW-21	08/28/2019	16:32	4	Groundwater		AZ19629
FB-3	08/28/2019	17:10	4	Field Blank		AZ19630
PZ-5	08/29/2019	09:30	4	Groundwater		AZ19631
MW-10	08/29/2019	11:05	4	Groundwater		AZ19632
MW-10 Dup	08/29/2019	11:05	4	Sample Duplicate		AZ19633

Relinquished By	Received By	Date/Time
<i>J. Baker</i>	<i>Russell M. Dyer</i>	08/29/2019 13:38

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1237	
Cooler Temp	0.8 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	7267-39374-6-6	



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 08/29/2019 13:50

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

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	8/27/19	12:13	4	Groundwater		AZ19615
MW-2	08/27/2019	14:02	4	Groundwater		AZ19616
MW-11	08/28/2019	12:50	4	Groundwater		AZ19617
FB-1	08/28/2019	11:14	4	Field Blank		AZ19618
MW-5	08/28/2019	15:07	4	Groundwater		AZ19619
MW-5DUP	08/28/2019	15:07	4	Sample Duplicate		AZ19620

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Kevin Melby</i>	08/29/2019 13:48

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	
Sample Event	1237	
Cooler Temp	0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	7267-39374-6-6	



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17H	8/27/19	10:35	4	Groundwater		AZ19634
MW-18H	08/27/2019	13:06	4	Groundwater		AZ19635
MW-3S	08/27/2019	14:52	4	Groundwater		AZ19636
MW-3D	08/27/2019	16:14	4	Groundwater		AZ19637
MW-15	08/28/2019	09:39	4	Groundwater		AZ19638
MW-16	08/28/2019	10:37	4	Groundwater		AZ19639
MW-16 Dup	08/28/2019	10:37	4	Sample Duplicate		AZ19640
MW-14	08/28/2019	11:56	4	Groundwater		AZ19641
MW-12	08/28/2019	13:21	4	Groundwater		AZ19642
MW-6V	08/28/2019	15:25	4	Groundwater		AZ19643
MW-6	08/28/2019	16:56	4	Groundwater		AZ19644
MW-13 D	08/29/2019	09:00	4	Groundwater		AZ19645
FB-2	08/29/2019	11:05	4	Field Blank		AZ19646
MW-13S	08/29/2019	11:13	4	Groundwater		AZ19647

Relinquished By	Received By	Date/Time
		08/29/2019 13:52

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	7081-38476-1-1	
Sample Event	1237	
	Cooler Temp	0.7 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	7267-39374-6-6



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **08/29/2019 14:25**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Miller Ash Pond

Bottles	1 Radium	1 L	3	5 N/A	N/A	7 N/A	N/A
	2		4	6 N/A	N/A	8 N/A	N/A

Comments Rad dup @ 7D

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4V	8/27/19	11:18	1	Groundwater		AZ19654
MW-4	08/27/2019	12:21	1	Groundwater		AZ19655
MW-9S	08/27/2019	14:10	1	Groundwater		AZ19656
MW-9D	08/27/2019	15:41	1	Groundwater		AZ19657
MW-7D	08/28/2019	08:55	3	Groundwater		AZ19658
MW-7S	08/28/2019	10:05	1	Groundwater		AZ19659
MW-8S	08/28/2019	12:03	1	Groundwater		AZ19660
MW-8D	08/28/2019	13:05	1	Groundwater		AZ19661
MW-21	08/28/2019	16:32	1	Groundwater		AZ19662
FB-3	08/28/2019	17:10	1	Field Blank		AZ19663
PZ-5	08/29/2019	09:30	1	Groundwater		AZ19664
MW-10	08/29/2019	11:05	1	Groundwater		AZ19665
MW-10 Dup	08/29/2019	11:05	1	Sample Duplicate		AZ19666

Relinquished By	Received By	Date/Time
<i>J. Baker</i>	<i>Russell Mills</i>	08/29/2019 13:38

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1237	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	7267-39374-6-6	



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 08/29/2019 13:50

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

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	8/27/19	12:13	1	Groundwater		AZ19648
MW-2	08/27/2019	14:02	1	Groundwater		AZ19649
MW-11	08/28/2019	12:50	1	Groundwater		AZ19650
FB-1	08/28/2019	11:14	1	Field Blank		AZ19651
MW-5	08/28/2019	15:07	1	Groundwater		AZ19652
MW-5DUP	08/28/2019	15:07	1	Sample Duplicate		AZ19653

Relinquished By	Received By	Date/Time
		08/29/2019 13:49

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1237	Thermometer ID	N/A
		pH Strip ID	7267-39374-6-6



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jeff K. Baker	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Miller Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium duplicate collected on MW-14. Correcting MW-13D date to 8/29/19. LBM 9/3/19

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17H	8/27/19	10:35	1	Groundwater		AZ19667
MW-18H	08/27/2019	13:06	1	Groundwater		AZ19668
MW-3S	08/27/2019	14:52	1	Groundwater		AZ19669
MW-3D	08/27/2019	16:14	1	Groundwater		AZ19670
MW-15	08/28/2019	09:39	1	Groundwater		AZ19671
MW-16	08/28/2019	10:37	1	Groundwater		AZ19672
MW-16 dup	08/28/2019	10:37	1	Sample Duplicate		AZ19673
MW-14	08/28/2019	11:56	3	Groundwater		AZ19674
MW-12	08/28/2019	13:21	1	Groundwater		AZ19675
MW-6V	08/28/2019	15:25	1	Groundwater		AZ19676
MW-6	08/28/2019	16:56	1	Groundwater		AZ19677
MW-13D	08/29/2019	09:00	1	Groundwater		AZ19678
FB-2	08/29/2019	11:05	1	Field Blank		AZ19679
MW-13S	08/29/2019	11:13	1	Groundwater		AZ19680

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Laura Wilkey</i>	08/29/2019 13:52

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	7081-38476-1-1	
Sample Event	1237	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	7267-39374-6-6	

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

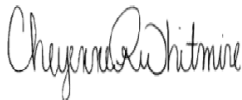
Laboratory Job ID: 400-175771-1

Laboratory Sample Delivery Group: Miller Ash Pond 1237
Client Project/Site: CCR Plant Miller

For:

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

Attn: Laura Midkiff



Authorized for release by:
10/9/2019 6:03:26 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

LINKS

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results through
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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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Job ID: 400-175771-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-175771-1

RAD

Method(s) 9315: Radium-226 prep batch 160-442681. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ19648 MW-1 (400-175771-1), AZ19649 MW-2 (400-175771-2), AZ19650 MW-11 (400-175771-3), AZ19651 FB-1 (400-175771-4), AZ19652 MW-5 (400-175771-5), AZ19653 MW-5 DUP (400-175771-6), AZ19654 MW-4V (400-175771-7), AZ19655 MW-4 (400-175771-8), AZ19656 MW-9S (400-175771-9), AZ19657 MW-9D (400-175771-10), AZ19658 MW-7D (400-175771-11), AZ19658 MW-7D (400-175771-11[DUJ]), AZ19659 MW-7S (400-175771-12), AZ19660 MW-8S (400-175771-13), AZ19661 MW-8D (400-175771-14), AZ19662 MW-21 (400-175771-15), AZ19663 FB-3 (400-175771-16), AZ19664 PZ-5 (400-175771-17), AZ19665 MW-10 (400-175771-18), AZ19666 MW-10 DUP (400-175771-19), AZ19667 MW-17H (400-175771-20), (LCS 160-442681/1-A) and (MB 160-442681/23-A)

Method(s) 9315: Radium-226 Prep Batch 160-442681. The following samples exhibited a negative Radium-226 result greater in magnitude than the 3 sigma TPU. This occurrence was evaluated and determined to be random in nature. Sporadic occurrences such as this are statistically expected. No further action is required. AZ19660 MW-8S (400-175771-13)

Method(s) 9315: Radium-226 prep batch 160-442697. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ19668 MW-18H (400-175771-21), AZ19669 MW-3S (400-175771-22), AZ19670 MW-3D (400-175771-23), AZ19671 MW-15 (400-175771-24), AZ19672 MW-16 (400-175771-25), AZ19673 MW-16 DUP (400-175771-26), AZ19674 MW-14 (400-175771-27), AZ19674 MW-14 (400-175771-27[DUJ]), AZ19675 MW-12 (400-175771-28), AZ19676 MW-6V (400-175771-29), AZ19677 MW-6 (400-175771-30), AZ19678 MW-13D (400-175771-31), AZ19679 FB-2 (400-175771-32), AZ19680 MW-13S (400-175771-33), AZ19834 EB-1 (400-175771-34), AZ19835 MW-20HS (400-175771-35), AZ19836 MW-20H (400-175771-36), (LCS 160-442697/1-A) and (MB 160-442697/19-A)

Method(s) 9315: Radium-226 Prep Batch: 160-442697. The Method Blank (MB) exhibited a negative result greater in magnitude than the 3 sigma TPU. This occurrence was evaluated and determined to be random in nature. Sporadic occurrences such as this are statistically expected. No further action is required. AZ19668 MW-18H (400-175771-21), AZ19669 MW-3S (400-175771-22), AZ19670 MW-3D (400-175771-23), AZ19671 MW-15 (400-175771-24), AZ19672 MW-16 (400-175771-25), AZ19673 MW-16 DUP (400-175771-26), AZ19674 MW-14 (400-175771-27), AZ19674 MW-14 (400-175771-27[DUJ]), AZ19675 MW-12 (400-175771-28), AZ19676 MW-6V (400-175771-29), AZ19677 MW-6 (400-175771-30), AZ19678 MW-13D (400-175771-31), AZ19679 FB-2 (400-175771-32), AZ19680 MW-13S (400-175771-33), AZ19834 EB-1 (400-175771-34), AZ19835 MW-20HS (400-175771-35), AZ19836 MW-20H (400-175771-36), (LCS 160-442697/1-A) and (MB 160-442697/19-A)

Method(s) 9320: Radium-228 prep batch 160-442708. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ19668 MW-18H (400-175771-21), AZ19669 MW-3S (400-175771-22), AZ19670 MW-3D (400-175771-23), AZ19671 MW-15 (400-175771-24), AZ19672 MW-16 (400-175771-25), AZ19673 MW-16 DUP (400-175771-26), AZ19674 MW-14 (400-175771-27), AZ19674 MW-14 (400-175771-27[DUJ]), AZ19675 MW-12 (400-175771-28), AZ19676 MW-6V (400-175771-29), AZ19677 MW-6 (400-175771-30), AZ19678 MW-13D (400-175771-31), AZ19679 FB-2 (400-175771-32), AZ19680 MW-13S (400-175771-33), AZ19834 EB-1 (400-175771-34), AZ19835 MW-20HS (400-175771-35), AZ19836 MW-20H (400-175771-36), (LCS 160-442708/1-A) and (MB 160-442708/19-A)

Method(s) 9320: Radium-228 Prep Batch 160-442685. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ19648 MW-1 (400-175771-1), AZ19649 MW-2 (400-175771-2), AZ19650 MW-11 (400-175771-3), AZ19651 FB-1 (400-175771-4), AZ19652 MW-5 (400-175771-5), AZ19653 MW-5 DUP (400-175771-6), AZ19654 MW-4V (400-175771-7), AZ19655 MW-4 (400-175771-8), AZ19656 MW-9S (400-175771-9), AZ19657 MW-9D (400-175771-10), AZ19658 MW-7D (400-175771-11), AZ19658 MW-7D (400-175771-11[DUJ]), AZ19659 MW-7S (400-175771-12), AZ19660 MW-8S (400-175771-13), AZ19661 MW-8D (400-175771-14), AZ19662 MW-21 (400-175771-15), AZ19663 FB-3 (400-175771-16), AZ19664 PZ-5 (400-175771-17), AZ19665 MW-10 (400-175771-18), AZ19666 MW-10 DUP (400-175771-19), AZ19667 MW-17H (400-175771-20), (LCS 160-442685/1-A) and (MB 160-442685/23-A)

Case Narrative

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Job ID: 400-175771-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-442685. The following samples were prepared at a reduced aliquot due to insufficient volume: AZ19648 MW-1 (400-175771-1), AZ19649 MW-2 (400-175771-2), AZ19650 MW-11 (400-175771-3), AZ19651 FB-1 (400-175771-4), AZ19652 MW-5 (400-175771-5), AZ19653 MW-5 DUP (400-175771-6), AZ19654 MW-4V (400-175771-7), AZ19655 MW-4 (400-175771-8), AZ19656 MW-9S (400-175771-9), AZ19657 MW-9D (400-175771-10), AZ19658 MW-7D (400-175771-11), AZ19658 MW-7D (400-175771-11[DUJ]), AZ19659 MW-7S (400-175771-12), AZ19660 MW-8S (400-175771-13), AZ19661 MW-8D (400-175771-14), AZ19662 MW-21 (400-175771-15), AZ19663 FB-3 (400-175771-16), AZ19664 PZ-5 (400-175771-17), AZ19665 MW-10 (400-175771-18), AZ19666 MW-10 DUP (400-175771-19) and AZ19667 MW-17H (400-175771-20). Sample 400-175771-A-2 had yellow discoloration.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-442708. The following samples were prepared at a reduced aliquot due to insufficient volume: AZ19668 MW-18H (400-175771-21), AZ19669 MW-3S (400-175771-22), AZ19670 MW-3D (400-175771-23), AZ19671 MW-15 (400-175771-24), AZ19672 MW-16 (400-175771-25), AZ19673 MW-16 DUP (400-175771-26), AZ19674 MW-14 (400-175771-27), AZ19674 MW-14 (400-175771-27[DUJ]), AZ19675 MW-12 (400-175771-28), AZ19676 MW-6V (400-175771-29), AZ19677 MW-6 (400-175771-30), AZ19678 MW-13D (400-175771-31), AZ19679 FB-2 (400-175771-32), AZ19680 MW-13S (400-175771-33), AZ19834 EB-1 (400-175771-34), AZ19835 MW-20HS (400-175771-35) and AZ19836 MW-20H (400-175771-36).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-442681. The following samples were prepared at a reduced aliquot due to insufficient volume: AZ19648 MW-1 (400-175771-1), AZ19649 MW-2 (400-175771-2), AZ19650 MW-11 (400-175771-3), AZ19651 FB-1 (400-175771-4), AZ19652 MW-5 (400-175771-5), AZ19653 MW-5 DUP (400-175771-6), AZ19654 MW-4V (400-175771-7), AZ19655 MW-4 (400-175771-8), AZ19656 MW-9S (400-175771-9), AZ19657 MW-9D (400-175771-10), AZ19658 MW-7D (400-175771-11), AZ19658 MW-7D (400-175771-11[DUJ]), AZ19659 MW-7S (400-175771-12), AZ19660 MW-8S (400-175771-13), AZ19661 MW-8D (400-175771-14), AZ19662 MW-21 (400-175771-15), AZ19663 FB-3 (400-175771-16), AZ19664 PZ-5 (400-175771-17), AZ19665 MW-10 (400-175771-18), AZ19666 MW-10 DUP (400-175771-19) and AZ19667 MW-17H (400-175771-20). Sample 400-175771-A-2 had yellow discoloration.

Method(s) PrecSep-21: Radium 226 Prep Batch 160-442697. The following samples were prepared at a reduced aliquot due to insufficient volume: AZ19668 MW-18H (400-175771-21), AZ19669 MW-3S (400-175771-22), AZ19670 MW-3D (400-175771-23), AZ19671 MW-15 (400-175771-24), AZ19672 MW-16 (400-175771-25), AZ19673 MW-16 DUP (400-175771-26), AZ19674 MW-14 (400-175771-27), AZ19674 MW-14 (400-175771-27[DUJ]), AZ19675 MW-12 (400-175771-28), AZ19676 MW-6V (400-175771-29), AZ19677 MW-6 (400-175771-30), AZ19678 MW-13D (400-175771-31), AZ19679 FB-2 (400-175771-32), AZ19680 MW-13S (400-175771-33), AZ19834 EB-1 (400-175771-34), AZ19835 MW-20HS (400-175771-35) and AZ19836 MW-20H (400-175771-36).

Method Summary

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-175771-1	AZ19648 MW-1	Water	08/27/19 12:13	09/05/19 12:10	
400-175771-2	AZ19649 MW-2	Water	08/27/19 14:02	09/05/19 12:10	
400-175771-3	AZ19650 MW-11	Water	08/28/19 12:50	09/05/19 12:10	
400-175771-4	AZ19651 FB-1	Water	08/28/19 11:14	09/05/19 12:10	
400-175771-5	AZ19652 MW-5	Water	08/28/19 15:07	09/05/19 12:10	
400-175771-6	AZ19653 MW-5 DUP	Water	08/28/19 15:07	09/05/19 12:10	
400-175771-7	AZ19654 MW-4V	Water	08/27/19 11:18	09/05/19 12:10	
400-175771-8	AZ19655 MW-4	Water	08/27/19 12:21	09/05/19 12:10	
400-175771-9	AZ19656 MW-9S	Water	08/27/19 14:10	09/05/19 12:10	
400-175771-10	AZ19657 MW-9D	Water	08/27/19 15:41	09/05/19 12:10	
400-175771-11	AZ19658 MW-7D	Water	08/28/19 08:55	09/05/19 12:10	
400-175771-12	AZ19659 MW-7S	Water	08/28/19 10:05	09/05/19 12:10	
400-175771-13	AZ19660 MW-8S	Water	08/28/19 12:03	09/05/19 12:10	
400-175771-14	AZ19661 MW-8D	Water	08/28/19 13:05	09/05/19 12:10	
400-175771-15	AZ19662 MW-21	Water	08/28/19 16:32	09/05/19 12:10	
400-175771-16	AZ19663 FB-3	Water	08/28/19 17:10	09/05/19 12:10	
400-175771-17	AZ19664 PZ-5	Water	08/29/19 09:30	09/05/19 12:10	
400-175771-18	AZ19665 MW-10	Water	08/29/19 11:05	09/05/19 12:10	
400-175771-19	AZ19666 MW-10 DUP	Water	08/29/19 11:05	09/05/19 12:10	
400-175771-20	AZ19667 MW-17H	Water	08/27/19 10:35	09/05/19 12:10	
400-175771-21	AZ19668 MW-18H	Water	08/27/19 13:06	09/05/19 12:10	
400-175771-22	AZ19669 MW-3S	Water	08/27/19 14:52	09/05/19 12:10	
400-175771-23	AZ19670 MW-3D	Water	08/27/19 16:14	09/05/19 12:10	
400-175771-24	AZ19671 MW-15	Water	08/28/19 09:39	09/05/19 12:10	
400-175771-25	AZ19672 MW-16	Water	08/28/19 10:37	09/05/19 12:10	
400-175771-26	AZ19673 MW-16 DUP	Water	08/28/19 10:37	09/05/19 12:10	
400-175771-27	AZ19674 MW-14	Water	08/28/19 11:56	09/05/19 12:10	
400-175771-28	AZ19675 MW-12	Water	08/28/19 13:21	09/05/19 12:10	
400-175771-29	AZ19676 MW-6V	Water	08/28/19 15:25	09/05/19 12:10	
400-175771-30	AZ19677 MW-6	Water	08/28/19 16:56	09/05/19 12:10	
400-175771-31	AZ19678 MW-13D	Water	08/29/19 09:00	09/05/19 12:10	
400-175771-32	AZ19679 FB-2	Water	08/29/19 11:05	09/05/19 12:10	
400-175771-33	AZ19680 MW-13S	Water	08/29/19 11:13	09/05/19 12:10	
400-175771-34	AZ19834 EB-1	Water	09/03/19 10:31	09/05/19 12:10	
400-175771-35	AZ19835 MW-20HS	Water	09/03/19 11:30	09/05/19 12:10	
400-175771-36	AZ19836 MW-20H	Water	09/03/19 12:38	09/05/19 12:10	

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19648 MW-1

Lab Sample ID: 400-175771-1

Date Collected: 08/27/19 12:13

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0249	U	0.0756	0.0756	1.00	0.162	pCi/L	09/11/19 12:57	10/03/19 21:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/11/19 12:57	10/03/19 21:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.721		0.360	0.366	1.00	0.530	pCi/L	09/11/19 13:51	09/23/19 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/11/19 13:51	09/23/19 08:31	1
Y Carrier	81.9		40 - 110					09/11/19 13:51	09/23/19 08:31	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.696		0.368	0.374	5.00	0.530	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19649 MW-2

Lab Sample ID: 400-175771-2

Date Collected: 08/27/19 14:02

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0287	U	0.0825	0.0825	1.00	0.172	pCi/L	09/11/19 12:57	10/03/19 21:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					09/11/19 12:57	10/03/19 21:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.643		0.345	0.350	1.00	0.517	pCi/L	09/11/19 13:51	09/23/19 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					09/11/19 13:51	09/23/19 08:31	1
Y Carrier	80.7		40 - 110					09/11/19 13:51	09/23/19 08:31	1

Method: Ra226_Ra228 - Combined Radium-226 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		0.355	0.360	5.00	0.517	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19650 MW-11

Lab Sample ID: 400-175771-3

Date Collected: 08/28/19 12:50

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0111	U	0.0930	0.0930	1.00	0.177	pCi/L	09/11/19 12:57	10/03/19 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/11/19 12:57	10/03/19 22:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.347	U	0.325	0.326	1.00	0.524	pCi/L	09/11/19 13:51	09/23/19 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/11/19 13:51	09/23/19 08:31	1
Y Carrier	81.1		40 - 110					09/11/19 13:51	09/23/19 08:31	1

Method: Ra226_Ra228 - Combined Radium-226 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	0.338	0.339	5.00	0.524	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19651 FB-1

Lab Sample ID: 400-175771-4

Date Collected: 08/28/19 11:14

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0259	U	0.0758	0.0759	1.00	0.162	pCi/L	09/11/19 12:57	10/03/19 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/11/19 12:57	10/03/19 22:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.428	U	0.319	0.321	1.00	0.502	pCi/L	09/11/19 13:51	09/23/19 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/11/19 13:51	09/23/19 08:31	1
Y Carrier	87.5		40 - 110					09/11/19 13:51	09/23/19 08:31	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.402	U	0.328	0.330	5.00	0.502	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19652 MW-5

Lab Sample ID: 400-175771-5

Date Collected: 08/28/19 15:07

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00966	U	0.0808	0.0808	1.00	0.158	pCi/L	09/11/19 12:57	10/03/19 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					09/11/19 12:57	10/03/19 22:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.800		0.357	0.364	1.00	0.515	pCi/L	09/11/19 13:51	09/23/19 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					09/11/19 13:51	09/23/19 08:31	1
Y Carrier	87.5		40 - 110					09/11/19 13:51	09/23/19 08:31	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.810		0.366	0.373	5.00	0.515	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19653 MW-5 DUP

Lab Sample ID: 400-175771-6

Date Collected: 08/28/19 15:07

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0571	U	0.0859	0.0861	1.00	0.147	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606		0.330	0.335	1.00	0.495	pCi/L	09/11/19 13:51	09/23/19 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					09/11/19 13:51	09/23/19 08:32	1
Y Carrier	84.1		40 - 110					09/11/19 13:51	09/23/19 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.663		0.341	0.346	5.00	0.495	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19654 MW-4V

Lab Sample ID: 400-175771-7

Date Collected: 08/27/19 11:18

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0201	U	0.0819	0.0819	1.00	0.169	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.968		0.339	0.350	1.00	0.449	pCi/L	09/11/19 13:51	09/23/19 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/11/19 13:51	09/23/19 08:32	1
Y Carrier	83.4		40 - 110					09/11/19 13:51	09/23/19 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.948		0.349	0.359	5.00	0.449	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19655 MW-4

Lab Sample ID: 400-175771-8

Date Collected: 08/27/19 12:21

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0227	U	0.0756	0.0756	1.00	0.142	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.510		0.326	0.329	1.00	0.501	pCi/L	09/11/19 13:51	09/23/19 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/11/19 13:51	09/23/19 08:32	1
Y Carrier	83.7		40 - 110					09/11/19 13:51	09/23/19 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.533		0.335	0.338	5.00	0.501	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19656 MW-9S

Lab Sample ID: 400-175771-9

Date Collected: 08/27/19 14:10

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0396	U	0.0829	0.0830	1.00	0.149	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438	U	0.357	0.360	1.00	0.569	pCi/L	09/11/19 13:51	09/23/19 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					09/11/19 13:51	09/23/19 08:32	1
Y Carrier	78.5		40 - 110					09/11/19 13:51	09/23/19 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.477	U	0.366	0.369	5.00	0.569	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19657 MW-9D

Lab Sample ID: 400-175771-10

Date Collected: 08/27/19 15:41

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.113	U	0.0941	0.0946	1.00	0.139	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.628		0.334	0.339	1.00	0.490	pCi/L	09/11/19 13:51	09/23/19 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/11/19 13:51	09/23/19 08:32	1
Y Carrier	87.1		40 - 110					09/11/19 13:51	09/23/19 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.740		0.347	0.352	5.00	0.490	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19658 MW-7D

Lab Sample ID: 400-175771-11

Date Collected: 08/28/19 08:55

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0968	U	0.104	0.104	1.00	0.167	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.230	U	0.311	0.312	1.00	0.519	pCi/L	09/11/19 13:51	09/23/19 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					09/11/19 13:51	09/23/19 08:32	1
Y Carrier	87.9		40 - 110					09/11/19 13:51	09/23/19 08:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.327	U	0.328	0.329	5.00	0.519	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19659 MW-7S

Lab Sample ID: 400-175771-12

Date Collected: 08/28/19 10:05

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.0986	0.0990	1.00	0.151	pCi/L	09/11/19 12:57	10/03/19 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					09/11/19 12:57	10/03/19 22:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.758		0.450	0.456	1.00	0.695	pCi/L	09/11/19 13:51	09/23/19 08:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					09/11/19 13:51	09/23/19 08:36	1
Y Carrier	84.5		40 - 110					09/11/19 13:51	09/23/19 08:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.864		0.461	0.467	5.00	0.695	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19660 MW-8S

Lab Sample ID: 400-175771-13

Date Collected: 08/28/19 12:03

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0941	U	0.0607	0.0613	1.00	0.170	pCi/L	09/11/19 12:57	10/04/19 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					09/11/19 12:57	10/04/19 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	0.461	U	0.390	0.392	1.00	0.624	pCi/L	09/11/19 13:51	09/23/19 08:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					09/11/19 13:51	09/23/19 08:36	1
Y Carrier	85.6		40 - 110					09/11/19 13:51	09/23/19 08:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.367	U	0.395	0.397	5.00	0.624	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19661 MW-8D

Lab Sample ID: 400-175771-14

Date Collected: 08/28/19 13:05

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0255	U	0.0950	0.0950	1.00	0.175	pCi/L	09/11/19 12:57	10/04/19 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/11/19 12:57	10/04/19 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	0.504	U	0.385	0.388	1.00	0.611	pCi/L	09/11/19 13:51	09/23/19 08:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/11/19 13:51	09/23/19 08:36	1
Y Carrier	83.0		40 - 110					09/11/19 13:51	09/23/19 08:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.530	U	0.397	0.399	5.00	0.611	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19662 MW-21

Lab Sample ID: 400-175771-15

Date Collected: 08/28/19 16:32

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206		0.126	0.127	1.00	0.177	pCi/L	09/11/19 12:57	10/04/19 06:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					09/11/19 12:57	10/04/19 06:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.703		0.427	0.432	1.00	0.662	pCi/L	09/11/19 13:51	09/23/19 08:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					09/11/19 13:51	09/23/19 08:36	1
Y Carrier	84.1		40 - 110					09/11/19 13:51	09/23/19 08:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.908		0.445	0.450	5.00	0.662	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19663 FB-3

Lab Sample ID: 400-175771-16

Date Collected: 08/28/19 17:10

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0670	U	0.0963	0.0965	1.00	0.163	pCi/L	09/11/19 12:57	10/04/19 06:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/11/19 12:57	10/04/19 06:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.193	U	0.314	0.315	1.00	0.530	pCi/L	09/11/19 13:51	09/23/19 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/11/19 13:51	09/23/19 08:37	1
Y Carrier	87.9		40 - 110					09/11/19 13:51	09/23/19 08:37	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	0.260	U	0.328	0.329	5.00	0.530	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19664 PZ-5

Lab Sample ID: 400-175771-17

Date Collected: 08/29/19 09:30

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0907	U	0.102	0.102	1.00	0.165	pCi/L	09/11/19 12:57	10/04/19 06:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/11/19 12:57	10/04/19 06:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.264	U	0.344	0.345	1.00	0.572	pCi/L	09/11/19 13:51	09/23/19 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/11/19 13:51	09/23/19 08:37	1
Y Carrier	88.6		40 - 110					09/11/19 13:51	09/23/19 08:37	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	0.355	U	0.359	0.360	5.00	0.572	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19665 MW-10

Lab Sample ID: 400-175771-18

Date Collected: 08/29/19 11:05

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.159	U	0.118	0.119	1.00	0.175	pCi/L	09/11/19 12:57	10/04/19 06:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					09/11/19 12:57	10/04/19 06:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.365	0.365	1.00	0.606	pCi/L	09/11/19 13:51	09/23/19 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					09/11/19 13:51	09/23/19 08:37	1
Y Carrier	84.9		40 - 110					09/11/19 13:51	09/23/19 08:37	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	0.437	U	0.384	0.384	5.00	0.606	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19666 MW-10 DUP

Lab Sample ID: 400-175771-19

Date Collected: 08/29/19 11:05

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211		0.111	0.113	1.00	0.141	pCi/L	09/11/19 12:57	10/04/19 06:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					09/11/19 12:57	10/04/19 06:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.460	U	0.334	0.336	1.00	0.523	pCi/L	09/11/19 13:51	09/23/19 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					09/11/19 13:51	09/23/19 08:37	1
Y Carrier	86.7		40 - 110					09/11/19 13:51	09/23/19 08:37	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	0.670		0.352	0.354	5.00	0.523	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19667 MW-17H

Lab Sample ID: 400-175771-20

Date Collected: 08/27/19 10:35

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.280		0.125	0.128	1.00	0.147	pCi/L	09/11/19 12:57	10/04/19 06:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/11/19 12:57	10/04/19 06:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.421	U	0.324	0.327	1.00	0.512	pCi/L	09/11/19 13:51	09/23/19 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/11/19 13:51	09/23/19 08:37	1
Y Carrier	87.9		40 - 110					09/11/19 13:51	09/23/19 08:37	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	0.701		0.347	0.351	5.00	0.512	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19668 MW-18H

Lab Sample ID: 400-175771-21

Date Collected: 08/27/19 13:06

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0693	U	0.0853	0.0855	1.00	0.140	pCi/L	09/11/19 15:13	10/04/19 06:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/11/19 15:13	10/04/19 06:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.275	U	0.405	0.406	1.00	0.680	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	79.6		40 - 110					09/11/19 16:08	09/19/19 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	0.344	U	0.414	0.415	5.00	0.680	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19669 MW-3S

Lab Sample ID: 400-175771-22

Date Collected: 08/27/19 14:52

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.320		0.147	0.150	1.00	0.183	pCi/L	09/11/19 15:13	10/04/19 06:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					09/11/19 15:13	10/04/19 06:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.851		0.481	0.487	1.00	0.722	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	82.2		40 - 110					09/11/19 16:08	09/19/19 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	1.17		0.503	0.510	5.00	0.722	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19670 MW-3D

Lab Sample ID: 400-175771-23

Date Collected: 08/27/19 16:14

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0530	U	0.0690	0.0691	1.00	0.163	pCi/L	09/11/19 15:13	10/04/19 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					09/11/19 15:13	10/04/19 09:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.544	U	0.509	0.512	1.00	0.825	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	77.8		40 - 110					09/11/19 16:08	09/19/19 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	0.491	U	0.514	0.517	5.00	0.825	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19671 MW-15

Lab Sample ID: 400-175771-24

Date Collected: 08/28/19 09:39

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0189	U	0.0809	0.0810	1.00	0.165	pCi/L	09/11/19 15:13	10/04/19 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/11/19 15:13	10/04/19 09:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0231	U	0.360	0.360	1.00	0.638	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	81.9		40 - 110					09/11/19 16:08	09/19/19 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	0.00424	U	0.369	0.369	5.00	0.638	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19672 MW-16

Lab Sample ID: 400-175771-25

Date Collected: 08/28/19 10:37

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00757	U	0.0911	0.0911	1.00	0.181	pCi/L	09/11/19 15:13	10/04/19 09:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		40 - 110					09/11/19 15:13	10/04/19 09:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.379	U	0.460	0.461	1.00	0.760	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	81.5		40 - 110					09/11/19 16:08	09/19/19 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	0.372	U	0.469	0.470	5.00	0.760	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19673 MW-16 DUP

Lab Sample ID: 400-175771-26

Date Collected: 08/28/19 10:37

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0114	U	0.0869	0.0869	1.00	0.167	pCi/L	09/11/19 15:13	10/04/19 09:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					09/11/19 15:13	10/04/19 09:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.170	U	0.477	0.477	1.00	0.820	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	79.6		40 - 110					09/11/19 16:08	09/19/19 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	0.181	U	0.485	0.485	5.00	0.820	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19674 MW-14

Lab Sample ID: 400-175771-27

Date Collected: 08/28/19 11:56

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00888	U	0.0743	0.0743	1.00	0.145	pCi/L	09/11/19 15:13	10/04/19 09:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/11/19 15:13	10/04/19 09:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0296	U	0.335	0.335	1.00	0.606	pCi/L	09/11/19 16:08	09/19/19 17:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/11/19 16:08	09/19/19 17:54	1
Y Carrier	82.6		40 - 110					09/11/19 16:08	09/19/19 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	-0.0208	U	0.343	0.343	5.00	0.606	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19675 MW-12

Lab Sample ID: 400-175771-28

Date Collected: 08/28/19 13:21

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0397	U	0.0777	0.0778	1.00	0.138	pCi/L	09/11/19 15:13	10/04/19 09:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					09/11/19 15:13	10/04/19 09:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.537	U	0.490	0.492	1.00	0.792	pCi/L	09/11/19 16:08	09/19/19 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					09/11/19 16:08	09/19/19 17:55	1
Y Carrier	81.1		40 - 110					09/11/19 16:08	09/19/19 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	0.577	U	0.496	0.498	5.00	0.792	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19676 MW-6V

Lab Sample ID: 400-175771-29

Date Collected: 08/28/19 15:25

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0217	U	0.0821	0.0821	1.00	0.156	pCi/L	09/11/19 15:13	10/04/19 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					09/11/19 15:13	10/04/19 09:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.367	U	0.489	0.490	1.00	0.812	pCi/L	09/11/19 16:08	09/19/19 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					09/11/19 16:08	09/19/19 17:55	1
Y Carrier	82.2		40 - 110					09/11/19 16:08	09/19/19 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	0.389	U	0.496	0.497	5.00	0.812	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19677 MW-6

Lab Sample ID: 400-175771-30

Date Collected: 08/28/19 16:56

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0136	U	0.0655	0.0655	1.00	0.129	pCi/L	09/11/19 15:13	10/04/19 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/11/19 15:13	10/04/19 09:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.255	U	0.410	0.410	1.00	0.691	pCi/L	09/11/19 16:08	09/19/19 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/11/19 16:08	09/19/19 17:55	1
Y Carrier	80.4		40 - 110					09/11/19 16:08	09/19/19 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	0.268	U	0.415	0.415	5.00	0.691	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19678 MW-13D

Lab Sample ID: 400-175771-31

Date Collected: 08/29/19 09:00

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0747	U	0.0881	0.0884	1.00	0.144	pCi/L	09/11/19 15:13	10/04/19 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					09/11/19 15:13	10/04/19 09:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.213	U	0.333	0.334	1.00	0.561	pCi/L	09/11/19 16:08	09/19/19 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					09/11/19 16:08	09/19/19 17:55	1
Y Carrier	86.4		40 - 110					09/11/19 16:08	09/19/19 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	0.287	U	0.344	0.346	5.00	0.561	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19679 FB-2

Lab Sample ID: 400-175771-32

Date Collected: 08/29/19 11:05

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0997	U	0.0590	0.0596	1.00	0.161	pCi/L	09/11/19 15:13	10/04/19 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/11/19 15:13	10/04/19 12:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.237	U	0.337	0.338	1.00	0.565	pCi/L	09/11/19 16:08	09/19/19 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/11/19 16:08	09/19/19 17:55	1
Y Carrier	80.4		40 - 110					09/11/19 16:08	09/19/19 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	0.137	U	0.342	0.343	5.00	0.565	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19680 MW-13S

Lab Sample ID: 400-175771-33

Date Collected: 08/29/19 11:13

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0166	U	0.0780	0.0780	1.00	0.162	pCi/L	09/11/19 15:13	10/04/19 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/11/19 15:13	10/04/19 12:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.117	U	0.371	0.371	1.00	0.647	pCi/L	09/11/19 16:08	09/19/19 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/11/19 16:08	09/19/19 17:55	1
Y Carrier	79.3		40 - 110					09/11/19 16:08	09/19/19 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	0.100	U	0.379	0.379	5.00	0.647	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19834 EB-1

Lab Sample ID: 400-175771-34

Date Collected: 09/03/19 10:31

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0378	U	0.0926	0.0927	1.00	0.206	pCi/L	09/11/19 15:13	10/04/19 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.9		40 - 110					09/11/19 15:13	10/04/19 12:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.244	U G	0.584	0.585	1.00	1.00	pCi/L	09/11/19 16:08	09/19/19 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.9		40 - 110					09/11/19 16:08	09/19/19 17:56	1
Y Carrier	78.1		40 - 110					09/11/19 16:08	09/19/19 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	0.206	U	0.591	0.592	5.00	1.00	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19835 MW-20HS

Lab Sample ID: 400-175771-35

Date Collected: 09/03/19 11:30

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00708	U	0.0849	0.0850	1.00	0.164	pCi/L	09/11/19 15:13	10/04/19 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/11/19 15:13	10/04/19 12:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.363	U	0.351	0.353	1.00	0.567	pCi/L	09/11/19 16:08	09/19/19 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/11/19 16:08	09/19/19 17:56	1
Y Carrier	81.9		40 - 110					09/11/19 16:08	09/19/19 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	0.370	U	0.361	0.363	5.00	0.567	pCi/L		10/09/19 09:29	1

Client Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19836 MW-20H

Lab Sample ID: 400-175771-36

Date Collected: 09/03/19 12:38

Matrix: Water

Date Received: 09/05/19 12:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00449	U	0.0680	0.0680	1.00	0.141	pCi/L	09/11/19 15:13	10/04/19 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/11/19 15:13	10/04/19 12:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.148	U	0.388	0.388	1.00	0.671	pCi/L	09/11/19 16:08	09/19/19 17:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/11/19 16:08	09/19/19 17:56	1
Y Carrier	75.5		40 - 110					09/11/19 16:08	09/19/19 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	0.144	U	0.394	0.394	5.00	0.671	pCi/L		10/09/19 09:29	1

Definitions/Glossary

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Client Sample ID: AZ19648 MW-1

Lab Sample ID: 400-175771-1

Date Collected: 08/27/19 12:13

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444961	10/03/19 21:15	JCB	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:31	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19649 MW-2

Lab Sample ID: 400-175771-2

Date Collected: 08/27/19 14:02

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444961	10/03/19 21:15	JCB	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:31	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19650 MW-11

Lab Sample ID: 400-175771-3

Date Collected: 08/28/19 12:50

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:29	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:31	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19651 FB-1

Lab Sample ID: 400-175771-4

Date Collected: 08/28/19 11:14

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:29	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:31	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19652 MW-5

Lab Sample ID: 400-175771-5

Date Collected: 08/28/19 15:07

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:29	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:31	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19653 MW-5 DUP

Lab Sample ID: 400-175771-6

Date Collected: 08/28/19 15:07

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:32	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19654 MW-4V

Lab Sample ID: 400-175771-7

Date Collected: 08/27/19 11:18

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:32	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19655 MW-4

Lab Sample ID: 400-175771-8

Date Collected: 08/27/19 12:21

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:32	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19656 MW-9S

Lab Sample ID: 400-175771-9

Date Collected: 08/27/19 14:10

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:32	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19657 MW-9D

Lab Sample ID: 400-175771-10

Date Collected: 08/27/19 15:41

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:32	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19658 MW-7D

Lab Sample ID: 400-175771-11

Date Collected: 08/28/19 08:55

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443707	09/23/19 08:32	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19659 MW-7S

Lab Sample ID: 400-175771-12

Date Collected: 08/28/19 10:05

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	444983	10/03/19 22:30	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Client Sample ID: AZ19660 MW-8S

Lab Sample ID: 400-175771-13

Date Collected: 08/28/19 12:03

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445087	10/04/19 06:44	SCB	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19661 MW-8D

Lab Sample ID: 400-175771-14

Date Collected: 08/28/19 13:05

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445087	10/04/19 06:44	SCB	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19662 MW-21

Lab Sample ID: 400-175771-15

Date Collected: 08/28/19 16:32

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:47	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19663 FB-3

Lab Sample ID: 400-175771-16

Date Collected: 08/28/19 17:10

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:47	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Client Sample ID: AZ19664 PZ-5

Lab Sample ID: 400-175771-17

Date Collected: 08/29/19 09:30

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:48	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19665 MW-10

Lab Sample ID: 400-175771-18

Date Collected: 08/29/19 11:05

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:48	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19666 MW-10 DUP

Lab Sample ID: 400-175771-19

Date Collected: 08/29/19 11:05

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:48	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19667 MW-17H

Lab Sample ID: 400-175771-20

Date Collected: 08/27/19 10:35

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442681	09/11/19 12:57	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:48	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442685	09/11/19 13:51	ORM	TAL SL
Total/NA	Analysis	9320		1	443740	09/23/19 08:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Client Sample ID: AZ19668 MW-18H

Lab Sample ID: 400-175771-21

Date Collected: 08/27/19 13:06

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:51	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19669 MW-3S

Lab Sample ID: 400-175771-22

Date Collected: 08/27/19 14:52

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 06:52	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19670 MW-3D

Lab Sample ID: 400-175771-23

Date Collected: 08/27/19 16:14

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445087	10/04/19 09:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19671 MW-15

Lab Sample ID: 400-175771-24

Date Collected: 08/28/19 09:39

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445087	10/04/19 09:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Client Sample ID: AZ19672 MW-16

Lab Sample ID: 400-175771-25

Date Collected: 08/28/19 10:37

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:42	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19673 MW-16 DUP

Lab Sample ID: 400-175771-26

Date Collected: 08/28/19 10:37

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:42	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19674 MW-14

Lab Sample ID: 400-175771-27

Date Collected: 08/28/19 11:56

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:42	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:54	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19675 MW-12

Lab Sample ID: 400-175771-28

Date Collected: 08/28/19 13:21

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:42	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:55	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Client Sample ID: AZ19676 MW-6V

Lab Sample ID: 400-175771-29

Date Collected: 08/28/19 15:25

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:43	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:55	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19677 MW-6

Lab Sample ID: 400-175771-30

Date Collected: 08/28/19 16:56

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:43	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:55	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19678 MW-13D

Lab Sample ID: 400-175771-31

Date Collected: 08/29/19 09:00

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 09:43	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:55	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19679 FB-2

Lab Sample ID: 400-175771-32

Date Collected: 08/29/19 11:05

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 12:32	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:55	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Client Sample ID: AZ19680 MW-13S

Lab Sample ID: 400-175771-33

Date Collected: 08/29/19 11:13

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 12:32	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:55	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19834 EB-1

Lab Sample ID: 400-175771-34

Date Collected: 09/03/19 10:31

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 12:33	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:56	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19835 MW-20HS

Lab Sample ID: 400-175771-35

Date Collected: 09/03/19 11:30

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 12:33	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:56	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Client Sample ID: AZ19836 MW-20H

Lab Sample ID: 400-175771-36

Date Collected: 09/03/19 12:38

Matrix: Water

Date Received: 09/05/19 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			442697	09/11/19 15:13	ORM	TAL SL
Total/NA	Analysis	9315		1	445088	10/04/19 12:33	KLS	TAL SL
Total/NA	Prep	PrecSep_0			442708	09/11/19 16:08	ORM	TAL SL
Total/NA	Analysis	9320		1	443453	09/19/19 17:56	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	445537	10/09/19 09:29	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Rad

Prep Batch: 442681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-175771-1	AZ19648 MW-1	Total/NA	Water	PrecSep-21	
400-175771-2	AZ19649 MW-2	Total/NA	Water	PrecSep-21	
400-175771-3	AZ19650 MW-11	Total/NA	Water	PrecSep-21	
400-175771-4	AZ19651 FB-1	Total/NA	Water	PrecSep-21	
400-175771-5	AZ19652 MW-5	Total/NA	Water	PrecSep-21	
400-175771-6	AZ19653 MW-5 DUP	Total/NA	Water	PrecSep-21	
400-175771-7	AZ19654 MW-4V	Total/NA	Water	PrecSep-21	
400-175771-8	AZ19655 MW-4	Total/NA	Water	PrecSep-21	
400-175771-9	AZ19656 MW-9S	Total/NA	Water	PrecSep-21	
400-175771-10	AZ19657 MW-9D	Total/NA	Water	PrecSep-21	
400-175771-11	AZ19658 MW-7D	Total/NA	Water	PrecSep-21	
400-175771-12	AZ19659 MW-7S	Total/NA	Water	PrecSep-21	
400-175771-13	AZ19660 MW-8S	Total/NA	Water	PrecSep-21	
400-175771-14	AZ19661 MW-8D	Total/NA	Water	PrecSep-21	
400-175771-15	AZ19662 MW-21	Total/NA	Water	PrecSep-21	
400-175771-16	AZ19663 FB-3	Total/NA	Water	PrecSep-21	
400-175771-17	AZ19664 PZ-5	Total/NA	Water	PrecSep-21	
400-175771-18	AZ19665 MW-10	Total/NA	Water	PrecSep-21	
400-175771-19	AZ19666 MW-10 DUP	Total/NA	Water	PrecSep-21	
400-175771-20	AZ19667 MW-17H	Total/NA	Water	PrecSep-21	
MB 160-442681/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-442681/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-175771-11 DU	AZ19658 MW-7D	Total/NA	Water	PrecSep-21	

Prep Batch: 442685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-175771-1	AZ19648 MW-1	Total/NA	Water	PrecSep_0	
400-175771-2	AZ19649 MW-2	Total/NA	Water	PrecSep_0	
400-175771-3	AZ19650 MW-11	Total/NA	Water	PrecSep_0	
400-175771-4	AZ19651 FB-1	Total/NA	Water	PrecSep_0	
400-175771-5	AZ19652 MW-5	Total/NA	Water	PrecSep_0	
400-175771-6	AZ19653 MW-5 DUP	Total/NA	Water	PrecSep_0	
400-175771-7	AZ19654 MW-4V	Total/NA	Water	PrecSep_0	
400-175771-8	AZ19655 MW-4	Total/NA	Water	PrecSep_0	
400-175771-9	AZ19656 MW-9S	Total/NA	Water	PrecSep_0	
400-175771-10	AZ19657 MW-9D	Total/NA	Water	PrecSep_0	
400-175771-11	AZ19658 MW-7D	Total/NA	Water	PrecSep_0	
400-175771-12	AZ19659 MW-7S	Total/NA	Water	PrecSep_0	
400-175771-13	AZ19660 MW-8S	Total/NA	Water	PrecSep_0	
400-175771-14	AZ19661 MW-8D	Total/NA	Water	PrecSep_0	
400-175771-15	AZ19662 MW-21	Total/NA	Water	PrecSep_0	
400-175771-16	AZ19663 FB-3	Total/NA	Water	PrecSep_0	
400-175771-17	AZ19664 PZ-5	Total/NA	Water	PrecSep_0	
400-175771-18	AZ19665 MW-10	Total/NA	Water	PrecSep_0	
400-175771-19	AZ19666 MW-10 DUP	Total/NA	Water	PrecSep_0	
400-175771-20	AZ19667 MW-17H	Total/NA	Water	PrecSep_0	
MB 160-442685/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-442685/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-175771-11 DU	AZ19658 MW-7D	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Rad

Prep Batch: 442697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-175771-21	AZ19668 MW-18H	Total/NA	Water	PrecSep-21	
400-175771-22	AZ19669 MW-3S	Total/NA	Water	PrecSep-21	
400-175771-23	AZ19670 MW-3D	Total/NA	Water	PrecSep-21	
400-175771-24	AZ19671 MW-15	Total/NA	Water	PrecSep-21	
400-175771-25	AZ19672 MW-16	Total/NA	Water	PrecSep-21	
400-175771-26	AZ19673 MW-16 DUP	Total/NA	Water	PrecSep-21	
400-175771-27	AZ19674 MW-14	Total/NA	Water	PrecSep-21	
400-175771-28	AZ19675 MW-12	Total/NA	Water	PrecSep-21	
400-175771-29	AZ19676 MW-6V	Total/NA	Water	PrecSep-21	
400-175771-30	AZ19677 MW-6	Total/NA	Water	PrecSep-21	
400-175771-31	AZ19678 MW-13D	Total/NA	Water	PrecSep-21	
400-175771-32	AZ19679 FB-2	Total/NA	Water	PrecSep-21	
400-175771-33	AZ19680 MW-13S	Total/NA	Water	PrecSep-21	
400-175771-34	AZ19834 EB-1	Total/NA	Water	PrecSep-21	
400-175771-35	AZ19835 MW-20HS	Total/NA	Water	PrecSep-21	
400-175771-36	AZ19836 MW-20H	Total/NA	Water	PrecSep-21	
400-175771-27 DU	AZ19674 MW-14	Total/NA	Water	PrecSep-21	

Prep Batch: 442708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-175771-21	AZ19668 MW-18H	Total/NA	Water	PrecSep_0	
400-175771-22	AZ19669 MW-3S	Total/NA	Water	PrecSep_0	
400-175771-23	AZ19670 MW-3D	Total/NA	Water	PrecSep_0	
400-175771-24	AZ19671 MW-15	Total/NA	Water	PrecSep_0	
400-175771-25	AZ19672 MW-16	Total/NA	Water	PrecSep_0	
400-175771-26	AZ19673 MW-16 DUP	Total/NA	Water	PrecSep_0	
400-175771-27	AZ19674 MW-14	Total/NA	Water	PrecSep_0	
400-175771-28	AZ19675 MW-12	Total/NA	Water	PrecSep_0	
400-175771-29	AZ19676 MW-6V	Total/NA	Water	PrecSep_0	
400-175771-30	AZ19677 MW-6	Total/NA	Water	PrecSep_0	
400-175771-31	AZ19678 MW-13D	Total/NA	Water	PrecSep_0	
400-175771-32	AZ19679 FB-2	Total/NA	Water	PrecSep_0	
400-175771-33	AZ19680 MW-13S	Total/NA	Water	PrecSep_0	
400-175771-34	AZ19834 EB-1	Total/NA	Water	PrecSep_0	
400-175771-35	AZ19835 MW-20HS	Total/NA	Water	PrecSep_0	
400-175771-36	AZ19836 MW-20H	Total/NA	Water	PrecSep_0	
MB 160-442708/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-442708/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-175771-27 DU	AZ19674 MW-14	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-442681/23-A
Matrix: Water
Analysis Batch: 445088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 442681

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.06824	U	0.0794	0.0797	1.00	0.129	pCi/L	09/11/19 13:01	10/04/19 06:48	1
Carrier	MB MB		Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	%Yield	Qualifier	40 - 110			09/11/19 13:01	10/04/19 06:48		1	
	93.2									

Lab Sample ID: LCS 160-442681/1-A
Matrix: Water
Analysis Batch: 444983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 442681

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.23		1.38	1.00	0.166	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.4		40 - 110						

Lab Sample ID: 400-175771-11 DU
Matrix: Water
Analysis Batch: 444983

Client Sample ID: AZ19658 MW-7D
Prep Type: Total/NA
Prep Batch: 442681

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0968	U	0.02466	U	0.0862	1.00	0.161	pCi/L	0.38	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	86.7		40 - 110							

Lab Sample ID: 400-175771-27 DU
Matrix: Water
Analysis Batch: 445088

Client Sample ID: AZ19674 MW-14
Prep Type: Total/NA
Prep Batch: 442697

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.00888	U	0.007270	U	0.0872	1.00	0.168	pCi/L	0.01	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	89.3		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-442685/23-A
Matrix: Water
Analysis Batch: 443740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 442685

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5623	U	0.365	0.369	1.00	0.563	pCi/L	09/11/19 13:51	09/23/19 08:37	1

Eurofins TestAmerica, Pensacola

QC Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

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

	<i>MB</i>	<i>MB</i>									
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>				
Ba Carrier	93.2		40 - 110		09/11/19 13:51	09/23/19 08:37	1				
Y Carrier	78.9		40 - 110		09/11/19 13:51	09/23/19 08:37	1				

Lab Sample ID: LCS 160-442685/1-A
Matrix: Water
Analysis Batch: 443707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 442685

<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	12.7	15.51		1.74	1.00	0.521	pCi/L	122	75 - 125	

	<i>LCS</i>	<i>LCS</i>		
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>	
Ba Carrier	92.4		40 - 110	
Y Carrier	81.9		40 - 110	

Lab Sample ID: 400-175771-11 DU
Matrix: Water
Analysis Batch: 443707

Client Sample ID: AZ19658 MW-7D
Prep Type: Total/NA
Prep Batch: 442685

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qual</i>	<i>DU Result</i>	<i>DU Qual</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>RER</i>	<i>RER Limit</i>
Radium-228	0.230	U	0.6201		0.364	1.00	0.547	pCi/L	0.58	1

	<i>DU</i>	<i>DU</i>		
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>	
Ba Carrier	86.7		40 - 110	
Y Carrier	89.0		40 - 110	

Lab Sample ID: MB 160-442708/19-A
Matrix: Water
Analysis Batch: 443453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 442708

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Radium-228	-0.1801	U	0.339	0.339	1.00	0.642	pCi/L	09/11/19 16:08	09/19/19 17:56	1

	<i>MB</i>	<i>MB</i>								
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>			
Ba Carrier	91.2		40 - 110		09/11/19 16:08	09/19/19 17:56	1			
Y Carrier	78.9		40 - 110		09/11/19 16:08	09/19/19 17:56	1			

Lab Sample ID: LCS 160-442708/1-A
Matrix: Water
Analysis Batch: 443453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 442708

<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	12.8	14.23		1.74	1.00	0.786	pCi/L	112	75 - 125	

	<i>LCS</i>	<i>LCS</i>		
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>	
Ba Carrier	77.4		40 - 110	
Y Carrier	84.1		40 - 110	

QC Sample Results

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

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

Lab Sample ID: 400-175771-27 DU
Matrix: Water
Analysis Batch: 443453

Client Sample ID: AZ19674 MW-14
Prep Type: Total/NA
Prep Batch: 442708

Analyte	Sample	Sample	DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	-0.0296	U	0.2419	U	0.392	1.00	0.659	pCi/L	0.37	1

Carrier	DU	DU	Limits
	%Yield	Qualifier	
Ba Carrier	89.3		40 - 110
Y Carrier	81.9		40 - 110

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

Lab Sample ID: 400-175771-11 DU
Matrix: Water
Analysis Batch: 445537

Client Sample ID: AZ19658 MW-7D
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Combined Radium 226 + 228	0.327	U	0.6447		0.374	5.00	0.547	pCi/L	0.45	

Lab Sample ID: 400-175771-27 DU
Matrix: Water
Analysis Batch: 445537

Client Sample ID: AZ19674 MW-14
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Combined Radium 226 + 228	-0.0208	U	0.2492	U	0.402	5.00	0.659	pCi/L	0.36	

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab) Client Contact: Laura Midkiff Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC#8 City: Calera State, Zip: AL, 35040 Phone: 205-564-6197 Email: lbmidkiff@southernco.com Project Name: CCR Site: Miller Ash Pond 1237		Lab Pk: Whittire, Cheyenne R State of Origin: Alabama Carrier Tracking No(s): State of Origin: Alabama E-Mail: cheyenne.whittire@lestametric.com Accreditations Required (See note):		DOC No: 400-56525-24537.1 Page: Page 2 of 4 Job #:		
Due Date Requested: TAT Requested (days): Routine		Analysis Requested SM 4500 F.C SM 4500 Cl.E SM 4500 SO4.E 9315 Ra226, 9320 Ra228, Ra228Ra226, GFPC		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Acetic Acid H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)		Special Instructions/Note:		
Sample ID AZ19654 AZ19655 AZ19656 AZ19657 AZ19658 AZ19659 AZ19660 AZ19661 AZ19662 AZ19663 AZ19664 AZ19665 AZ19666	Sample Date 8/27/19 8/27/19 8/27/19 8/27/19 8/28/19 8/28/19 8/28/19 8/28/19 8/28/19 8/28/19 8/28/19 8/28/19 8/28/19 8/28/19	Sample Time 11:18 12:21 14:10 15:41 08:55 10:05 12:03 13:05 16:32 17:10 09:30 11:05 11:05	Sample Type (C-comp, G-grab) G G G G G G G G G G G G G	Matrix (Water, Sewage, Industrial, Other) Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Preservation Code MW-4V MW-4 MW-5S MW-9D MW-7D MW-7S MW-5S MW-9D MW-21 FB-3 (Field Blank) PZ-5 MW-10 MW-10 DUP (Sample Duplicate)	Total Number of Containers 1 1 1 1 3 1 1 1 1 1 1 1 1
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.						
Possible Hazard Identification Unconfirmed Deliverable: Returned 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						
Empk. Kit Relinquished by: Laura Midkiff Date: 09/04/2019 07:30 Date/Time: 09/04/2019 07:30 Date/Time: _____ Date/Time: _____ Date/Time: _____						
Method of Shipment: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____						
Custody Seal Intact: _____ Custody Seal No.: _____ Cooler Temperature: _____ °C and Other Remarks: _____						



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 (Sub Contract Lab)		Lab P/L: <u>Whitlire, Cheyenne R</u>		Carrier Tracking No(s):	
Sampler: <u>Dallas Gentry</u>		E-Mail: <u>cheyenne.whitlire@testamericainc.com</u>		State of Origin: <u>Alabama</u>	
Client Contact: <u>Laura Mickif</u>		Phone: <u></u>		Page: <u>Page 3 of 4</u>	
Company: <u>Alabama Power General Test Laboratory</u>		Address: <u>744 County Rd 87 GSC#8</u>		Job #: <u></u>	
City: <u>Calera</u>		State: <u>AL</u>		Zip: <u>35040</u>	
Phone: <u>205-664-5197</u>		PO #: <u></u>		WO #: <u></u>	
Email: <u>lmickif@southernco.com</u>		Project #: <u>40007143</u>		SSOW#: <u></u>	
CCR: <u></u>		Site: <u>Miller Ash Pond 1237</u>			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other)	Preservation Code	Filterd Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested		Special Instructions/Note:
								9315_Ra228, 9320_Ra228, Ra228Ra228_GFPc	SM 4500 S04_E	
AZ19667	8/27/19	10:35	G	Water		X		X		MW-17H
AZ19668	8/27/19	13:06	G	Water		X		X		MW-18H
AZ19669	8/27/19	14:52	G	Water		X		X		MW-3S
AZ19670	8/27/19	16:14	G	Water		X		X		MW-3D
AZ19671	8/28/19	09:39	G	Water		X		X		MW-15
AZ19672	8/28/19	10:37	G	Water		X		X		MW-16
AZ19673	8/28/19	10:37	G	Water		X		X		MW-16 DUP (Sample Duplicate)
AZ19674	8/28/19	11:56	G	Water		X		X		MW-14
AZ19675	8/28/19	13:21	G	Water		X		X		MW-12
AZ19676	8/28/19	15:25	G	Water		X		X		MW-6V
AZ19677	8/28/19	16:56	G	Water		X		X		MW-6
AZ19678	8/29/19	09:00	G	Water		X		X		MW-13D
AZ19679	8/29/19	11:05	G	Water		X		X		FB-2 (Field Blank)
AZ19680	8/29/19	11:13	G	Water		X		X		MW-13S

Due Date Requested:
TAT Requested (days): Routine
PO #:
WO #:
Project #: 40007143
SSOW #:

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - TSP Dodecylsulfate
 J - H2O2
 K - DI Water
 L - EDTA
 M - None
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecylsulfate
 U - H2O2
 V - MeOH
 W - pH 4-5
 X - other (specify)

Special Instructions/Note:
 Total Number of containers:

Analysis Requested:
 9315_Ra228, 9320_Ra228, Ra228Ra228_GFPc
 SM 4500 S04_E
 SM 4500 CL
 SM 4500 F_C

Filterd Filtered Sample (Yes or No): X
Perform MS/MSD (Yes or No): X

Carrier Tracking No(s):
State of Origin: Alabama
Page: Page 3 of 4
Job #:

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/OC Requirements: 43592

Empty Kit Relinquished by: Laura Mickif
Relinquished by:
Relinquished by:
Custody Seals Intact: 11:56

Date: 08/04/2019 07:30
Date/Time: 08/04/2019 07:30
Method of Shipment: Water APC Company
Received by: Laura Mickif
Date/Time: 8/19/19 12:00
Company: APC Company

Relinquished by:
Date/Time:
Company:

Relinquished by:
Date/Time:
Company:

Cooler Temperature(s) °C and Other Remarks:

Ver: 09/30/2016



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-175771-1
SDG Number: Miller Ash Pond 1237

Login Number: 175771

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: Eurofins 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	21.8°C, 20.9°C, 21.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-175771-1
SDG Number: Miller Ash Pond 1237

Login Number: 175771

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/07/19 01:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 400-175771-1
SDG: Miller Ash Pond 1237

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-22-20
Arizona	State	AZ0710	01-12-20
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-19
Iowa	State	367	08-01-20
Iowa	State Program	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State Program	53	06-30-20
Kentucky (WW)	State	KY98030	12-30-19
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	NELAP	LA017	12-31-19
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-19
New Jersey	NELAP	FL006	07-30-20
North Carolina (WW/SW)	State Program	314	12-31-19
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Rhode Island	State Program	LAO00307	12-30-19
South Carolina	State Program	96026	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	Federal	LE058448-0	07-31-20
USDA	Federal	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

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

Job ID: 400-175771-1
 SDG: Miller Ash Pond 1237

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State Program	C592	08-30-19 *
West Virginia DEP	State Program	381	10-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-1	8/27/2019 11:22	Conductivity	1434.51	uS/cm
MR-AP-MW-1	8/27/2019 11:22	DO	0.92	mg/L
MR-AP-MW-1	8/27/2019 11:22	Depth to Water Detail	197.91	ft
MR-AP-MW-1	8/27/2019 11:22	Oxidation Reduction Potention	-173.26	mv
MR-AP-MW-1	8/27/2019 11:22	pH	7.47	pH
MR-AP-MW-1	8/27/2019 11:22	Temperature	22.54	C
MR-AP-MW-1	8/27/2019 11:22	Turbidity	5.35	NTU
MR-AP-MW-1	8/27/2019 11:27	Conductivity	1436.34	uS/cm
MR-AP-MW-1	8/27/2019 11:27	DO	0.79	mg/L
MR-AP-MW-1	8/27/2019 11:27	Depth to Water Detail	198.3	ft
MR-AP-MW-1	8/27/2019 11:27	Oxidation Reduction Potention	-184.93	mv
MR-AP-MW-1	8/27/2019 11:27	pH	7.51	pH
MR-AP-MW-1	8/27/2019 11:27	Temperature	21.88	C
MR-AP-MW-1	8/27/2019 11:27	Turbidity	8.46	NTU
MR-AP-MW-1	8/27/2019 11:32	Conductivity	1434.68	uS/cm
MR-AP-MW-1	8/27/2019 11:32	DO	0.76	mg/L
MR-AP-MW-1	8/27/2019 11:32	Depth to Water Detail	198.46	ft
MR-AP-MW-1	8/27/2019 11:32	Oxidation Reduction Potention	-186.92	mv
MR-AP-MW-1	8/27/2019 11:32	pH	7.51	pH
MR-AP-MW-1	8/27/2019 11:32	Temperature	22.41	C
MR-AP-MW-1	8/27/2019 11:32	Turbidity	8.31	NTU
MR-AP-MW-1	8/27/2019 11:37	Conductivity	1431.75	uS/cm
MR-AP-MW-1	8/27/2019 11:37	DO	0.73	mg/L
MR-AP-MW-1	8/27/2019 11:37	Depth to Water Detail	198.68	ft
MR-AP-MW-1	8/27/2019 11:37	Oxidation Reduction Potention	-189.67	mv
MR-AP-MW-1	8/27/2019 11:37	pH	7.52	pH
MR-AP-MW-1	8/27/2019 11:37	Temperature	22.08	C
MR-AP-MW-1	8/27/2019 11:37	Turbidity	7.03	NTU
MR-AP-MW-1	8/27/2019 11:42	Conductivity	1434.61	uS/cm
MR-AP-MW-1	8/27/2019 11:42	DO	0.68	mg/L
MR-AP-MW-1	8/27/2019 11:42	Depth to Water Detail	198.75	ft
MR-AP-MW-1	8/27/2019 11:42	Oxidation Reduction Potention	-196.62	mv
MR-AP-MW-1	8/27/2019 11:42	pH	7.53	pH
MR-AP-MW-1	8/27/2019 11:42	Temperature	22.3	C
MR-AP-MW-1	8/27/2019 11:42	Turbidity	6.14	NTU
MR-AP-MW-1	8/27/2019 11:47	Conductivity	1455.31	uS/cm
MR-AP-MW-1	8/27/2019 11:47	DO	0.66	mg/L
MR-AP-MW-1	8/27/2019 11:47	Depth to Water Detail	199.05	ft
MR-AP-MW-1	8/27/2019 11:47	Oxidation Reduction Potention	-191.48	mv
MR-AP-MW-1	8/27/2019 11:47	pH	7.51	pH
MR-AP-MW-1	8/27/2019 11:47	Temperature	22.71	C
MR-AP-MW-1	8/27/2019 11:47	Turbidity	6.45	NTU
MR-AP-MW-1	8/27/2019 11:52	Conductivity	1458.9	uS/cm
MR-AP-MW-1	8/27/2019 11:52	DO	0.66	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-1	8/27/2019 11:52	Depth to Water Detail	199.21	ft
MR-AP-MW-1	8/27/2019 11:52	Oxidation Reduction Potention	-196.22	mv
MR-AP-MW-1	8/27/2019 11:52	pH	7.52	pH
MR-AP-MW-1	8/27/2019 11:52	Temperature	22.71	C
MR-AP-MW-1	8/27/2019 11:52	Turbidity	5.4	NTU
MR-AP-MW-1	8/27/2019 11:57	Conductivity	1481.17	uS/cm
MR-AP-MW-1	8/27/2019 11:57	DO	0.64	mg/L
MR-AP-MW-1	8/27/2019 11:57	Depth to Water Detail	199.38	ft
MR-AP-MW-1	8/27/2019 11:57	Oxidation Reduction Potention	-190.76	mv
MR-AP-MW-1	8/27/2019 11:57	pH	7.5	pH
MR-AP-MW-1	8/27/2019 11:57	Temperature	22.89	C
MR-AP-MW-1	8/27/2019 11:57	Turbidity	4.93	NTU
MR-AP-MW-1	8/27/2019 12:02	Conductivity	1503.6	uS/cm
MR-AP-MW-1	8/27/2019 12:02	DO	0.65	mg/L
MR-AP-MW-1	8/27/2019 12:02	Depth to Water Detail	199.52	ft
MR-AP-MW-1	8/27/2019 12:02	Oxidation Reduction Potention	-193.21	mv
MR-AP-MW-1	8/27/2019 12:02	pH	7.5	pH
MR-AP-MW-1	8/27/2019 12:02	Temperature	22.86	C
MR-AP-MW-1	8/27/2019 12:02	Turbidity	4.88	NTU
MR-AP-MW-1	8/27/2019 12:07	Conductivity	1494.12	uS/cm
MR-AP-MW-1	8/27/2019 12:07	DO	0.63	mg/L
MR-AP-MW-1	8/27/2019 12:07	Depth to Water Detail	199.58	ft
MR-AP-MW-1	8/27/2019 12:07	Oxidation Reduction Potention	-188.74	mv
MR-AP-MW-1	8/27/2019 12:07	pH	7.48	pH
MR-AP-MW-1	8/27/2019 12:07	Temperature	23.34	C
MR-AP-MW-1	8/27/2019 12:07	Turbidity	6.4	NTU

**Alabama Power Company
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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-2	8/27/2019 13:13	Conductivity	2076.64	uS/cm
MR-AP-MW-2	8/27/2019 13:13	DO	3.95	mg/L
MR-AP-MW-2	8/27/2019 13:13	Depth to Water Detail	204.92	ft
MR-AP-MW-2	8/27/2019 13:13	Oxidation Reduction Potention	289.12	mv
MR-AP-MW-2	8/27/2019 13:13	pH	3.18	pH
MR-AP-MW-2	8/27/2019 13:13	Temperature	23.56	C
MR-AP-MW-2	8/27/2019 13:13	Turbidity	2.79	NTU
MR-AP-MW-2	8/27/2019 13:18	Conductivity	1235.14	uS/cm
MR-AP-MW-2	8/27/2019 13:18	DO	1.72	mg/L
MR-AP-MW-2	8/27/2019 13:18	Depth to Water Detail	205.02	ft
MR-AP-MW-2	8/27/2019 13:18	Oxidation Reduction Potention	-8.48	mv
MR-AP-MW-2	8/27/2019 13:18	pH	6.02	pH
MR-AP-MW-2	8/27/2019 13:18	Temperature	22.95	C
MR-AP-MW-2	8/27/2019 13:18	Turbidity	1.19	NTU
MR-AP-MW-2	8/27/2019 13:23	Conductivity	1189.08	uS/cm
MR-AP-MW-2	8/27/2019 13:23	DO	0.99	mg/L
MR-AP-MW-2	8/27/2019 13:23	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:23	Oxidation Reduction Potention	-27.73	mv
MR-AP-MW-2	8/27/2019 13:23	pH	6.13	pH
MR-AP-MW-2	8/27/2019 13:23	Temperature	23.27	C
MR-AP-MW-2	8/27/2019 13:23	Turbidity	0.82	NTU
MR-AP-MW-2	8/27/2019 13:28	Conductivity	1450.89	uS/cm
MR-AP-MW-2	8/27/2019 13:28	DO	0.88	mg/L
MR-AP-MW-2	8/27/2019 13:28	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:28	Oxidation Reduction Potention	-39.9	mv
MR-AP-MW-2	8/27/2019 13:28	pH	6.14	pH
MR-AP-MW-2	8/27/2019 13:28	Temperature	23.12	C
MR-AP-MW-2	8/27/2019 13:28	Turbidity	0.76	NTU
MR-AP-MW-2	8/27/2019 13:33	Conductivity	1855.36	uS/cm
MR-AP-MW-2	8/27/2019 13:33	DO	0.8	mg/L
MR-AP-MW-2	8/27/2019 13:33	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:33	Oxidation Reduction Potention	-50.13	mv
MR-AP-MW-2	8/27/2019 13:33	pH	6.12	pH
MR-AP-MW-2	8/27/2019 13:33	Temperature	23.28	C
MR-AP-MW-2	8/27/2019 13:33	Turbidity	0.63	NTU
MR-AP-MW-2	8/27/2019 13:38	Conductivity	2196.52	uS/cm
MR-AP-MW-2	8/27/2019 13:38	DO	0.76	mg/L
MR-AP-MW-2	8/27/2019 13:38	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:38	Oxidation Reduction Potention	-59.17	mv
MR-AP-MW-2	8/27/2019 13:38	pH	6.15	pH
MR-AP-MW-2	8/27/2019 13:38	Temperature	22.67	C
MR-AP-MW-2	8/27/2019 13:38	Turbidity	0.73	NTU
MR-AP-MW-2	8/27/2019 13:43	Conductivity	2432.95	uS/cm
MR-AP-MW-2	8/27/2019 13:43	DO	0.74	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-2	8/27/2019 13:43	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:43	Oxidation Reduction Potention	-65.17	mv
MR-AP-MW-2	8/27/2019 13:43	pH	6.18	pH
MR-AP-MW-2	8/27/2019 13:43	Temperature	22.94	C
MR-AP-MW-2	8/27/2019 13:43	Turbidity	0.43	NTU
MR-AP-MW-2	8/27/2019 13:48	Conductivity	2547.04	uS/cm
MR-AP-MW-2	8/27/2019 13:48	DO	0.72	mg/L
MR-AP-MW-2	8/27/2019 13:48	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:48	Oxidation Reduction Potention	-69.33	mv
MR-AP-MW-2	8/27/2019 13:48	pH	6.21	pH
MR-AP-MW-2	8/27/2019 13:48	Temperature	23.09	C
MR-AP-MW-2	8/27/2019 13:48	Turbidity	0.58	NTU
MR-AP-MW-2	8/27/2019 13:53	Conductivity	2621.06	uS/cm
MR-AP-MW-2	8/27/2019 13:53	DO	0.74	mg/L
MR-AP-MW-2	8/27/2019 13:53	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:53	Oxidation Reduction Potention	-71.06	mv
MR-AP-MW-2	8/27/2019 13:53	pH	6.23	pH
MR-AP-MW-2	8/27/2019 13:53	Temperature	22.72	C
MR-AP-MW-2	8/27/2019 13:53	Turbidity	0.75	NTU
MR-AP-MW-2	8/27/2019 13:58	Conductivity	2663.22	uS/cm
MR-AP-MW-2	8/27/2019 13:58	DO	0.73	mg/L
MR-AP-MW-2	8/27/2019 13:58	Depth to Water Detail	205.1	ft
MR-AP-MW-2	8/27/2019 13:58	Oxidation Reduction Potention	-72.08	mv
MR-AP-MW-2	8/27/2019 13:58	pH	6.25	pH
MR-AP-MW-2	8/27/2019 13:58	Temperature	22.54	C
MR-AP-MW-2	8/27/2019 13:58	Turbidity	0.47	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-11	8/28/2019 11:10	Conductivity	1482.13	uS/cm
MR-AP-MW-11	8/28/2019 11:10	DO	1.98	mg/L
MR-AP-MW-11	8/28/2019 11:10	Depth to Water Detail	230.6	ft
MR-AP-MW-11	8/28/2019 11:10	Oxidation Reduction Potention	-66.55	mv
MR-AP-MW-11	8/28/2019 11:10	pH	6.68	pH
MR-AP-MW-11	8/28/2019 11:10	Temperature	22.72	C
MR-AP-MW-11	8/28/2019 11:10	Turbidity	4.6	NTU
MR-AP-MW-11	8/28/2019 11:15	Conductivity	1506.24	uS/cm
MR-AP-MW-11	8/28/2019 11:15	DO	1.44	mg/L
MR-AP-MW-11	8/28/2019 11:15	Depth to Water Detail	231.04	ft
MR-AP-MW-11	8/28/2019 11:15	Oxidation Reduction Potention	-63.63	mv
MR-AP-MW-11	8/28/2019 11:15	pH	6.6	pH
MR-AP-MW-11	8/28/2019 11:15	Temperature	23.19	C
MR-AP-MW-11	8/28/2019 11:15	Turbidity	7.12	NTU
MR-AP-MW-11	8/28/2019 11:20	Conductivity	1524.18	uS/cm
MR-AP-MW-11	8/28/2019 11:20	DO	1.67	mg/L
MR-AP-MW-11	8/28/2019 11:20	Depth to Water Detail	231.04	ft
MR-AP-MW-11	8/28/2019 11:20	Oxidation Reduction Potention	-65.03	mv
MR-AP-MW-11	8/28/2019 11:20	pH	6.61	pH
MR-AP-MW-11	8/28/2019 11:20	Temperature	25.77	C
MR-AP-MW-11	8/28/2019 11:20	Turbidity	5.96	NTU
MR-AP-MW-11	8/28/2019 11:25	Conductivity	1519.37	uS/cm
MR-AP-MW-11	8/28/2019 11:25	DO	1.36	mg/L
MR-AP-MW-11	8/28/2019 11:25	Depth to Water Detail	231.31	ft
MR-AP-MW-11	8/28/2019 11:25	Oxidation Reduction Potention	-64.39	mv
MR-AP-MW-11	8/28/2019 11:25	pH	6.61	pH
MR-AP-MW-11	8/28/2019 11:25	Temperature	24.5	C
MR-AP-MW-11	8/28/2019 11:25	Turbidity	7.61	NTU
MR-AP-MW-11	8/28/2019 11:30	Conductivity	1528.13	uS/cm
MR-AP-MW-11	8/28/2019 11:30	DO	1.2	mg/L
MR-AP-MW-11	8/28/2019 11:30	Depth to Water Detail	231.61	ft
MR-AP-MW-11	8/28/2019 11:30	Oxidation Reduction Potention	-63.4	mv
MR-AP-MW-11	8/28/2019 11:30	pH	6.62	pH
MR-AP-MW-11	8/28/2019 11:30	Temperature	23.93	C
MR-AP-MW-11	8/28/2019 11:30	Turbidity	6.69	NTU
MR-AP-MW-11	8/28/2019 11:35	Conductivity	1516.81	uS/cm
MR-AP-MW-11	8/28/2019 11:35	DO	1.15	mg/L
MR-AP-MW-11	8/28/2019 11:35	Depth to Water Detail	232.02	ft
MR-AP-MW-11	8/28/2019 11:35	Oxidation Reduction Potention	-62.1	mv
MR-AP-MW-11	8/28/2019 11:35	pH	6.62	pH
MR-AP-MW-11	8/28/2019 11:35	Temperature	23.85	C
MR-AP-MW-11	8/28/2019 11:35	Turbidity	5.52	NTU
MR-AP-MW-11	8/28/2019 11:40	Conductivity	1517.26	uS/cm
MR-AP-MW-11	8/28/2019 11:40	DO	1.12	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-11	8/28/2019 11:40	Depth to Water Detail	232.3	ft
MR-AP-MW-11	8/28/2019 11:40	Oxidation Reduction Potention	-60.15	mv
MR-AP-MW-11	8/28/2019 11:40	pH	6.61	pH
MR-AP-MW-11	8/28/2019 11:40	Temperature	24.14	C
MR-AP-MW-11	8/28/2019 11:40	Turbidity	4.3	NTU
MR-AP-MW-11	8/28/2019 11:45	Conductivity	1512.14	uS/cm
MR-AP-MW-11	8/28/2019 11:45	DO	1.1	mg/L
MR-AP-MW-11	8/28/2019 11:45	Depth to Water Detail	232.62	ft
MR-AP-MW-11	8/28/2019 11:45	Oxidation Reduction Potention	-58.59	mv
MR-AP-MW-11	8/28/2019 11:45	pH	6.6	pH
MR-AP-MW-11	8/28/2019 11:45	Temperature	23.8	C
MR-AP-MW-11	8/28/2019 11:45	Turbidity	4.42	NTU
MR-AP-MW-11	8/28/2019 11:50	Conductivity	1516.8	uS/cm
MR-AP-MW-11	8/28/2019 11:50	DO	1.09	mg/L
MR-AP-MW-11	8/28/2019 11:50	Depth to Water Detail	232.8	ft
MR-AP-MW-11	8/28/2019 11:50	Oxidation Reduction Potention	-57.83	mv
MR-AP-MW-11	8/28/2019 11:50	pH	6.59	pH
MR-AP-MW-11	8/28/2019 11:50	Temperature	24.29	C
MR-AP-MW-11	8/28/2019 11:50	Turbidity	3.98	NTU
MR-AP-MW-11	8/28/2019 11:55	Conductivity	1505.97	uS/cm
MR-AP-MW-11	8/28/2019 11:55	DO	1.07	mg/L
MR-AP-MW-11	8/28/2019 11:55	Depth to Water Detail	233.02	ft
MR-AP-MW-11	8/28/2019 11:55	Oxidation Reduction Potention	-56.81	mv
MR-AP-MW-11	8/28/2019 11:55	pH	6.59	pH
MR-AP-MW-11	8/28/2019 11:55	Temperature	23.92	C
MR-AP-MW-11	8/28/2019 11:55	Turbidity	3.85	NTU
MR-AP-MW-11	8/28/2019 12:00	Conductivity	1509.32	uS/cm
MR-AP-MW-11	8/28/2019 12:00	DO	1.03	mg/L
MR-AP-MW-11	8/28/2019 12:00	Depth to Water Detail	233.2	ft
MR-AP-MW-11	8/28/2019 12:00	Oxidation Reduction Potention	-56.12	mv
MR-AP-MW-11	8/28/2019 12:00	pH	6.59	pH
MR-AP-MW-11	8/28/2019 12:00	Temperature	24.47	C
MR-AP-MW-11	8/28/2019 12:00	Turbidity	3.65	NTU
MR-AP-MW-11	8/28/2019 12:05	Conductivity	1505.02	uS/cm
MR-AP-MW-11	8/28/2019 12:05	DO	1.01	mg/L
MR-AP-MW-11	8/28/2019 12:05	Depth to Water Detail	233.46	ft
MR-AP-MW-11	8/28/2019 12:05	Oxidation Reduction Potention	-55.42	mv
MR-AP-MW-11	8/28/2019 12:05	pH	6.58	pH
MR-AP-MW-11	8/28/2019 12:05	Temperature	24.17	C
MR-AP-MW-11	8/28/2019 12:05	Turbidity	3.63	NTU
MR-AP-MW-11	8/28/2019 12:10	Conductivity	1495.54	uS/cm
MR-AP-MW-11	8/28/2019 12:10	DO	1	mg/L
MR-AP-MW-11	8/28/2019 12:10	Depth to Water Detail	233.67	ft
MR-AP-MW-11	8/28/2019 12:10	Oxidation Reduction Potention	-55.45	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-11	8/28/2019 12:10	pH	6.58	pH
MR-AP-MW-11	8/28/2019 12:10	Temperature	24.5	C
MR-AP-MW-11	8/28/2019 12:10	Turbidity	3.93	NTU
MR-AP-MW-11	8/28/2019 12:15	Conductivity	1501.36	uS/cm
MR-AP-MW-11	8/28/2019 12:15	DO	0.99	mg/L
MR-AP-MW-11	8/28/2019 12:15	Depth to Water Detail	233.75	ft
MR-AP-MW-11	8/28/2019 12:15	Oxidation Reduction Potention	-55.12	mv
MR-AP-MW-11	8/28/2019 12:15	pH	6.59	pH
MR-AP-MW-11	8/28/2019 12:15	Temperature	24.57	C
MR-AP-MW-11	8/28/2019 12:15	Turbidity	3.75	NTU
MR-AP-MW-11	8/28/2019 12:20	Conductivity	1469.82	uS/cm
MR-AP-MW-11	8/28/2019 12:20	DO	1	mg/L
MR-AP-MW-11	8/28/2019 12:20	Depth to Water Detail	234.02	ft
MR-AP-MW-11	8/28/2019 12:20	Oxidation Reduction Potention	-57.88	mv
MR-AP-MW-11	8/28/2019 12:20	pH	6.65	pH
MR-AP-MW-11	8/28/2019 12:20	Temperature	24.24	C
MR-AP-MW-11	8/28/2019 12:20	Turbidity	5.21	NTU
MR-AP-MW-11	8/28/2019 12:25	Conductivity	1437.51	uS/cm
MR-AP-MW-11	8/28/2019 12:25	DO	1.02	mg/L
MR-AP-MW-11	8/28/2019 12:25	Depth to Water Detail	234.1	ft
MR-AP-MW-11	8/28/2019 12:25	Oxidation Reduction Potention	-68.2	mv
MR-AP-MW-11	8/28/2019 12:25	pH	6.79	pH
MR-AP-MW-11	8/28/2019 12:25	Temperature	24.2	C
MR-AP-MW-11	8/28/2019 12:25	Turbidity	6.02	NTU
MR-AP-MW-11	8/28/2019 12:30	Conductivity	1407.1	uS/cm
MR-AP-MW-11	8/28/2019 12:30	DO	1.06	mg/L
MR-AP-MW-11	8/28/2019 12:30	Depth to Water Detail	234.2	ft
MR-AP-MW-11	8/28/2019 12:30	Oxidation Reduction Potention	-84.71	mv
MR-AP-MW-11	8/28/2019 12:30	pH	7	pH
MR-AP-MW-11	8/28/2019 12:30	Temperature	24.04	C
MR-AP-MW-11	8/28/2019 12:30	Turbidity	6.45	NTU
MR-AP-MW-11	8/28/2019 12:35	Conductivity	1402.46	uS/cm
MR-AP-MW-11	8/28/2019 12:35	DO	1.05	mg/L
MR-AP-MW-11	8/28/2019 12:35	Depth to Water Detail	234.38	ft
MR-AP-MW-11	8/28/2019 12:35	Oxidation Reduction Potention	-97.1	mv
MR-AP-MW-11	8/28/2019 12:35	pH	7.15	pH
MR-AP-MW-11	8/28/2019 12:35	Temperature	24.56	C
MR-AP-MW-11	8/28/2019 12:35	Turbidity	6.8	NTU
MR-AP-MW-11	8/28/2019 12:40	Conductivity	1387.97	uS/cm
MR-AP-MW-11	8/28/2019 12:40	DO	1.05	mg/L
MR-AP-MW-11	8/28/2019 12:40	Depth to Water Detail	234.52	ft
MR-AP-MW-11	8/28/2019 12:40	Oxidation Reduction Potention	-101.93	mv
MR-AP-MW-11	8/28/2019 12:40	pH	7.22	pH
MR-AP-MW-11	8/28/2019 12:40	Temperature	24.37	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-11	8/28/2019 12:40	Turbidity	6.41	NTU
MR-AP-MW-11	8/28/2019 12:45	Conductivity	1395.33	uS/cm
MR-AP-MW-11	8/28/2019 12:45	DO	1.06	mg/L
MR-AP-MW-11	8/28/2019 12:45	Depth to Water Detail	234.57	ft
MR-AP-MW-11	8/28/2019 12:45	Oxidation Reduction Potention	-101.23	mv
MR-AP-MW-11	8/28/2019 12:45	pH	7.22	pH
MR-AP-MW-11	8/28/2019 12:45	Temperature	25.01	C
MR-AP-MW-11	8/28/2019 12:45	Turbidity	6.58	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-5	8/28/2019 14:53	Conductivity	1654	uS/cm
MR-AP-MW-5	8/28/2019 14:53	DO	0.24	mg/L
MR-AP-MW-5	8/28/2019 14:53	Depth to Water Detail	0	ft
MR-AP-MW-5	8/28/2019 14:53	Oxidation Reduction Potention	-131.18	mv
MR-AP-MW-5	8/28/2019 14:53	pH	7.1	pH
MR-AP-MW-5	8/28/2019 14:53	Temperature	17.89	C
MR-AP-MW-5	8/28/2019 14:53	Turbidity	3	NTU
MR-AP-MW-5	8/28/2019 14:58	Conductivity	1659.33	uS/cm
MR-AP-MW-5	8/28/2019 14:58	DO	0.22	mg/L
MR-AP-MW-5	8/28/2019 14:58	Depth to Water Detail	0	ft
MR-AP-MW-5	8/28/2019 14:58	Oxidation Reduction Potention	-129.98	mv
MR-AP-MW-5	8/28/2019 14:58	pH	7.09	pH
MR-AP-MW-5	8/28/2019 14:58	Temperature	17.93	C
MR-AP-MW-5	8/28/2019 14:58	Turbidity	3.03	NTU
MR-AP-MW-5	8/28/2019 15:03	Conductivity	1663.35	uS/cm
MR-AP-MW-5	8/28/2019 15:03	DO	0.21	mg/L
MR-AP-MW-5	8/28/2019 15:03	Depth to Water Detail	0	ft
MR-AP-MW-5	8/28/2019 15:03	Oxidation Reduction Potention	-129.14	mv
MR-AP-MW-5	8/28/2019 15:03	pH	7.08	pH
MR-AP-MW-5	8/28/2019 15:03	Temperature	17.93	C
MR-AP-MW-5	8/28/2019 15:03	Turbidity	3.11	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-4	8/27/2019 12:03	Conductivity	1454.48	uS/cm
MR-AP-MW-4	8/27/2019 12:03	DO	0.26	mg/L
MR-AP-MW-4	8/27/2019 12:03	Depth to Water Detail	41.86	ft
MR-AP-MW-4	8/27/2019 12:03	Oxidation Reduction Potention	83.96	mv
MR-AP-MW-4	8/27/2019 12:03	pH	6.08	pH
MR-AP-MW-4	8/27/2019 12:03	Temperature	20.3	C
MR-AP-MW-4	8/27/2019 12:03	Turbidity	3.81	NTU
MR-AP-MW-4	8/27/2019 12:08	Conductivity	1444.76	uS/cm
MR-AP-MW-4	8/27/2019 12:08	DO	0.23	mg/L
MR-AP-MW-4	8/27/2019 12:08	Depth to Water Detail	41.86	ft
MR-AP-MW-4	8/27/2019 12:08	Oxidation Reduction Potention	84.61	mv
MR-AP-MW-4	8/27/2019 12:08	pH	6.05	pH
MR-AP-MW-4	8/27/2019 12:08	Temperature	20.16	C
MR-AP-MW-4	8/27/2019 12:08	Turbidity	2.98	NTU
MR-AP-MW-4	8/27/2019 12:13	Conductivity	1442.17	uS/cm
MR-AP-MW-4	8/27/2019 12:13	DO	0.21	mg/L
MR-AP-MW-4	8/27/2019 12:13	Depth to Water Detail	41.86	ft
MR-AP-MW-4	8/27/2019 12:13	Oxidation Reduction Potention	85.14	mv
MR-AP-MW-4	8/27/2019 12:13	pH	6.04	pH
MR-AP-MW-4	8/27/2019 12:13	Temperature	20.25	C
MR-AP-MW-4	8/27/2019 12:13	Turbidity	1.96	NTU
MR-AP-MW-4	8/27/2019 12:18	Conductivity	1440.88	uS/cm
MR-AP-MW-4	8/27/2019 12:18	DO	0.21	mg/L
MR-AP-MW-4	8/27/2019 12:18	Depth to Water Detail	41.86	ft
MR-AP-MW-4	8/27/2019 12:18	Oxidation Reduction Potention	85.72	mv
MR-AP-MW-4	8/27/2019 12:18	pH	6.04	pH
MR-AP-MW-4	8/27/2019 12:18	Temperature	20.23	C
MR-AP-MW-4	8/27/2019 12:18	Turbidity	1.88	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-4V	8/27/2019 10:59	Conductivity	1523.64	uS/cm
MR-AP-MW-4V	8/27/2019 10:59	DO	0.22	mg/L
MR-AP-MW-4V	8/27/2019 10:59	Depth to Water Detail	87.06	ft
MR-AP-MW-4V	8/27/2019 10:59	Oxidation Reduction Potention	98.65	mv
MR-AP-MW-4V	8/27/2019 10:59	pH	6.37	pH
MR-AP-MW-4V	8/27/2019 10:59	Temperature	19.54	C
MR-AP-MW-4V	8/27/2019 10:59	Turbidity	3.9	NTU
MR-AP-MW-4V	8/27/2019 11:04	Conductivity	1525.78	uS/cm
MR-AP-MW-4V	8/27/2019 11:04	DO	0.2	mg/L
MR-AP-MW-4V	8/27/2019 11:04	Depth to Water Detail	87.06	ft
MR-AP-MW-4V	8/27/2019 11:04	Oxidation Reduction Potention	91	mv
MR-AP-MW-4V	8/27/2019 11:04	pH	6.37	pH
MR-AP-MW-4V	8/27/2019 11:04	Temperature	19.34	C
MR-AP-MW-4V	8/27/2019 11:04	Turbidity	2.4	NTU
MR-AP-MW-4V	8/27/2019 11:09	Conductivity	1526.69	uS/cm
MR-AP-MW-4V	8/27/2019 11:09	DO	0.19	mg/L
MR-AP-MW-4V	8/27/2019 11:09	Depth to Water Detail	87.06	ft
MR-AP-MW-4V	8/27/2019 11:09	Oxidation Reduction Potention	86.72	mv
MR-AP-MW-4V	8/27/2019 11:09	pH	6.38	pH
MR-AP-MW-4V	8/27/2019 11:09	Temperature	19.34	C
MR-AP-MW-4V	8/27/2019 11:09	Turbidity	1.39	NTU
MR-AP-MW-4V	8/27/2019 11:14	Conductivity	1527.44	uS/cm
MR-AP-MW-4V	8/27/2019 11:14	DO	0.18	mg/L
MR-AP-MW-4V	8/27/2019 11:14	Depth to Water Detail	87.06	ft
MR-AP-MW-4V	8/27/2019 11:14	Oxidation Reduction Potention	83.74	mv
MR-AP-MW-4V	8/27/2019 11:14	pH	6.38	pH
MR-AP-MW-4V	8/27/2019 11:14	Temperature	19.38	C
MR-AP-MW-4V	8/27/2019 11:14	Turbidity	1.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-7D	8/28/2019 8:37	Conductivity	1005.59	uS/cm
MR-AP-MW-7D	8/28/2019 8:37	DO	0.84	mg/L
MR-AP-MW-7D	8/28/2019 8:37	Depth to Water Detail	83.9	ft
MR-AP-MW-7D	8/28/2019 8:37	Oxidation Reduction Potention	55.91	mv
MR-AP-MW-7D	8/28/2019 8:37	pH	6.68	pH
MR-AP-MW-7D	8/28/2019 8:37	Temperature	18.1	C
MR-AP-MW-7D	8/28/2019 8:37	Turbidity	0.44	NTU
MR-AP-MW-7D	8/28/2019 8:42	Conductivity	998.87	uS/cm
MR-AP-MW-7D	8/28/2019 8:42	DO	0.23	mg/L
MR-AP-MW-7D	8/28/2019 8:42	Depth to Water Detail	83.9	ft
MR-AP-MW-7D	8/28/2019 8:42	Oxidation Reduction Potention	41.98	mv
MR-AP-MW-7D	8/28/2019 8:42	pH	6.61	pH
MR-AP-MW-7D	8/28/2019 8:42	Temperature	18.01	C
MR-AP-MW-7D	8/28/2019 8:42	Turbidity	0.34	NTU
MR-AP-MW-7D	8/28/2019 8:47	Conductivity	1008.07	uS/cm
MR-AP-MW-7D	8/28/2019 8:47	DO	0.2	mg/L
MR-AP-MW-7D	8/28/2019 8:47	Depth to Water Detail	83.9	ft
MR-AP-MW-7D	8/28/2019 8:47	Oxidation Reduction Potention	32.75	mv
MR-AP-MW-7D	8/28/2019 8:47	pH	6.58	pH
MR-AP-MW-7D	8/28/2019 8:47	Temperature	17.97	C
MR-AP-MW-7D	8/28/2019 8:47	Turbidity	0.11	NTU
MR-AP-MW-7D	8/28/2019 8:52	Conductivity	998.18	uS/cm
MR-AP-MW-7D	8/28/2019 8:52	DO	0.18	mg/L
MR-AP-MW-7D	8/28/2019 8:52	Depth to Water Detail	83.9	ft
MR-AP-MW-7D	8/28/2019 8:52	Oxidation Reduction Potention	26.39	mv
MR-AP-MW-7D	8/28/2019 8:52	pH	6.58	pH
MR-AP-MW-7D	8/28/2019 8:52	Temperature	17.89	C
MR-AP-MW-7D	8/28/2019 8:52	Turbidity	0.25	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-7S	8/28/2019 9:42	Conductivity	884.94	uS/cm
MR-AP-MW-7S	8/28/2019 9:42	DO	0.13	mg/L
MR-AP-MW-7S	8/28/2019 9:42	Depth to Water Detail	14.98	ft
MR-AP-MW-7S	8/28/2019 9:42	Oxidation Reduction Potention	-22.81	mv
MR-AP-MW-7S	8/28/2019 9:42	pH	6.55	pH
MR-AP-MW-7S	8/28/2019 9:42	Temperature	18.69	C
MR-AP-MW-7S	8/28/2019 9:42	Turbidity	2.79	NTU
MR-AP-MW-7S	8/28/2019 9:47	Conductivity	882.78	uS/cm
MR-AP-MW-7S	8/28/2019 9:47	DO	0.11	mg/L
MR-AP-MW-7S	8/28/2019 9:47	Depth to Water Detail	15.14	ft
MR-AP-MW-7S	8/28/2019 9:47	Oxidation Reduction Potention	-23.69	mv
MR-AP-MW-7S	8/28/2019 9:47	pH	6.55	pH
MR-AP-MW-7S	8/28/2019 9:47	Temperature	18.64	C
MR-AP-MW-7S	8/28/2019 9:47	Turbidity	2.09	NTU
MR-AP-MW-7S	8/28/2019 9:52	Conductivity	883.8	uS/cm
MR-AP-MW-7S	8/28/2019 9:52	DO	0.11	mg/L
MR-AP-MW-7S	8/28/2019 9:52	Depth to Water Detail	15.35	ft
MR-AP-MW-7S	8/28/2019 9:52	Oxidation Reduction Potention	-24.77	mv
MR-AP-MW-7S	8/28/2019 9:52	pH	6.55	pH
MR-AP-MW-7S	8/28/2019 9:52	Temperature	18.58	C
MR-AP-MW-7S	8/28/2019 9:52	Turbidity	1.99	NTU
MR-AP-MW-7S	8/28/2019 9:57	Conductivity	883.38	uS/cm
MR-AP-MW-7S	8/28/2019 9:57	DO	0.1	mg/L
MR-AP-MW-7S	8/28/2019 9:57	Depth to Water Detail	15.48	ft
MR-AP-MW-7S	8/28/2019 9:57	Oxidation Reduction Potention	-25.83	mv
MR-AP-MW-7S	8/28/2019 9:57	pH	6.55	pH
MR-AP-MW-7S	8/28/2019 9:57	Temperature	18.59	C
MR-AP-MW-7S	8/28/2019 9:57	Turbidity	1.69	NTU
MR-AP-MW-7S	8/28/2019 10:02	Conductivity	882.49	uS/cm
MR-AP-MW-7S	8/28/2019 10:02	DO	0.1	mg/L
MR-AP-MW-7S	8/28/2019 10:02	Depth to Water Detail	15.63	ft
MR-AP-MW-7S	8/28/2019 10:02	Oxidation Reduction Potention	-26.77	mv
MR-AP-MW-7S	8/28/2019 10:02	pH	6.56	pH
MR-AP-MW-7S	8/28/2019 10:02	Temperature	18.59	C
MR-AP-MW-7S	8/28/2019 10:02	Turbidity	2.22	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-8D	8/28/2019 12:47	Conductivity	999.5	uS/cm
MR-AP-MW-8D	8/28/2019 12:47	DO	0.31	mg/L
MR-AP-MW-8D	8/28/2019 12:47	Depth to Water Detail	45.64	ft
MR-AP-MW-8D	8/28/2019 12:47	Oxidation Reduction Potention	9.58	mv
MR-AP-MW-8D	8/28/2019 12:47	pH	6.17	pH
MR-AP-MW-8D	8/28/2019 12:47	Temperature	20.67	C
MR-AP-MW-8D	8/28/2019 12:47	Turbidity	0.32	NTU
MR-AP-MW-8D	8/28/2019 12:52	Conductivity	1012.75	uS/cm
MR-AP-MW-8D	8/28/2019 12:52	DO	0.26	mg/L
MR-AP-MW-8D	8/28/2019 12:52	Depth to Water Detail	45.7	ft
MR-AP-MW-8D	8/28/2019 12:52	Oxidation Reduction Potention	11.49	mv
MR-AP-MW-8D	8/28/2019 12:52	pH	6.13	pH
MR-AP-MW-8D	8/28/2019 12:52	Temperature	20.7	C
MR-AP-MW-8D	8/28/2019 12:52	Turbidity	0.53	NTU
MR-AP-MW-8D	8/28/2019 12:57	Conductivity	1017.44	uS/cm
MR-AP-MW-8D	8/28/2019 12:57	DO	0.23	mg/L
MR-AP-MW-8D	8/28/2019 12:57	Depth to Water Detail	45.86	ft
MR-AP-MW-8D	8/28/2019 12:57	Oxidation Reduction Potention	13.49	mv
MR-AP-MW-8D	8/28/2019 12:57	pH	6.1	pH
MR-AP-MW-8D	8/28/2019 12:57	Temperature	20.68	C
MR-AP-MW-8D	8/28/2019 12:57	Turbidity	0.88	NTU
MR-AP-MW-8D	8/28/2019 13:02	Conductivity	1020.39	uS/cm
MR-AP-MW-8D	8/28/2019 13:02	DO	0.22	mg/L
MR-AP-MW-8D	8/28/2019 13:02	Depth to Water Detail	45.92	ft
MR-AP-MW-8D	8/28/2019 13:02	Oxidation Reduction Potention	15.68	mv
MR-AP-MW-8D	8/28/2019 13:02	pH	6.09	pH
MR-AP-MW-8D	8/28/2019 13:02	Temperature	20.7	C
MR-AP-MW-8D	8/28/2019 13:02	Turbidity	0.64	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-8S	8/28/2019 11:45	Conductivity	1073.55	uS/cm
MR-AP-MW-8S	8/28/2019 11:45	DO	0.17	mg/L
MR-AP-MW-8S	8/28/2019 11:45	Depth to Water Detail	39.91	ft
MR-AP-MW-8S	8/28/2019 11:45	Oxidation Reduction Potention	9.17	mv
MR-AP-MW-8S	8/28/2019 11:45	pH	6.81	pH
MR-AP-MW-8S	8/28/2019 11:45	Temperature	19.06	C
MR-AP-MW-8S	8/28/2019 11:45	Turbidity	0.78	NTU
MR-AP-MW-8S	8/28/2019 11:50	Conductivity	1072.32	uS/cm
MR-AP-MW-8S	8/28/2019 11:50	DO	0.15	mg/L
MR-AP-MW-8S	8/28/2019 11:50	Depth to Water Detail	40.04	ft
MR-AP-MW-8S	8/28/2019 11:50	Oxidation Reduction Potention	8.95	mv
MR-AP-MW-8S	8/28/2019 11:50	pH	6.79	pH
MR-AP-MW-8S	8/28/2019 11:50	Temperature	19.13	C
MR-AP-MW-8S	8/28/2019 11:50	Turbidity	0.75	NTU
MR-AP-MW-8S	8/28/2019 11:55	Conductivity	1071.98	uS/cm
MR-AP-MW-8S	8/28/2019 11:55	DO	0.13	mg/L
MR-AP-MW-8S	8/28/2019 11:55	Depth to Water Detail	40.08	ft
MR-AP-MW-8S	8/28/2019 11:55	Oxidation Reduction Potention	8.95	mv
MR-AP-MW-8S	8/28/2019 11:55	pH	6.78	pH
MR-AP-MW-8S	8/28/2019 11:55	Temperature	19.13	C
MR-AP-MW-8S	8/28/2019 11:55	Turbidity	0.26	NTU
MR-AP-MW-8S	8/28/2019 12:00	Conductivity	1074.55	uS/cm
MR-AP-MW-8S	8/28/2019 12:00	DO	0.13	mg/L
MR-AP-MW-8S	8/28/2019 12:00	Depth to Water Detail	40.08	ft
MR-AP-MW-8S	8/28/2019 12:00	Oxidation Reduction Potention	9.16	mv
MR-AP-MW-8S	8/28/2019 12:00	pH	6.78	pH
MR-AP-MW-8S	8/28/2019 12:00	Temperature	19.21	C
MR-AP-MW-8S	8/28/2019 12:00	Turbidity	0.13	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-9D	8/27/2019 15:23	Conductivity	1029.43	uS/cm
MR-AP-MW-9D	8/27/2019 15:23	DO	0.29	mg/L
MR-AP-MW-9D	8/27/2019 15:23	Depth to Water Detail	37.91	ft
MR-AP-MW-9D	8/27/2019 15:23	Oxidation Reduction Potention	94.68	mv
MR-AP-MW-9D	8/27/2019 15:23	pH	5.4	pH
MR-AP-MW-9D	8/27/2019 15:23	Temperature	20.22	C
MR-AP-MW-9D	8/27/2019 15:23	Turbidity	0.17	NTU
MR-AP-MW-9D	8/27/2019 15:28	Conductivity	1026.77	uS/cm
MR-AP-MW-9D	8/27/2019 15:28	DO	0.26	mg/L
MR-AP-MW-9D	8/27/2019 15:28	Depth to Water Detail	37.91	ft
MR-AP-MW-9D	8/27/2019 15:28	Oxidation Reduction Potention	90.53	mv
MR-AP-MW-9D	8/27/2019 15:28	pH	5.42	pH
MR-AP-MW-9D	8/27/2019 15:28	Temperature	20.32	C
MR-AP-MW-9D	8/27/2019 15:28	Turbidity	0.11	NTU
MR-AP-MW-9D	8/27/2019 15:33	Conductivity	1024.98	uS/cm
MR-AP-MW-9D	8/27/2019 15:33	DO	0.26	mg/L
MR-AP-MW-9D	8/27/2019 15:33	Depth to Water Detail	37.91	ft
MR-AP-MW-9D	8/27/2019 15:33	Oxidation Reduction Potention	86.92	mv
MR-AP-MW-9D	8/27/2019 15:33	pH	5.43	pH
MR-AP-MW-9D	8/27/2019 15:33	Temperature	20.31	C
MR-AP-MW-9D	8/27/2019 15:33	Turbidity	0.08	NTU
MR-AP-MW-9D	8/27/2019 15:38	Conductivity	1018.15	uS/cm
MR-AP-MW-9D	8/27/2019 15:38	DO	0.26	mg/L
MR-AP-MW-9D	8/27/2019 15:38	Depth to Water Detail	37.91	ft
MR-AP-MW-9D	8/27/2019 15:38	Oxidation Reduction Potention	84.33	mv
MR-AP-MW-9D	8/27/2019 15:38	pH	5.44	pH
MR-AP-MW-9D	8/27/2019 15:38	Temperature	19.98	C
MR-AP-MW-9D	8/27/2019 15:38	Turbidity	0.13	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-9S	8/27/2019 13:31	Conductivity	1102.56	uS/cm
MR-AP-MW-9S	8/27/2019 13:31	DO	0.82	mg/L
MR-AP-MW-9S	8/27/2019 13:31	Depth to Water Detail	31.41	ft
MR-AP-MW-9S	8/27/2019 13:31	Oxidation Reduction Potention	104.17	mv
MR-AP-MW-9S	8/27/2019 13:31	pH	5.38	pH
MR-AP-MW-9S	8/27/2019 13:31	Temperature	19.32	C
MR-AP-MW-9S	8/27/2019 13:31	Turbidity	1.21	NTU
MR-AP-MW-9S	8/27/2019 13:36	Conductivity	1129.47	uS/cm
MR-AP-MW-9S	8/27/2019 13:36	DO	0.99	mg/L
MR-AP-MW-9S	8/27/2019 13:36	Depth to Water Detail	33.02	ft
MR-AP-MW-9S	8/27/2019 13:36	Oxidation Reduction Potention	105.85	mv
MR-AP-MW-9S	8/27/2019 13:36	pH	5.39	pH
MR-AP-MW-9S	8/27/2019 13:36	Temperature	19.38	C
MR-AP-MW-9S	8/27/2019 13:36	Turbidity	0.5	NTU
MR-AP-MW-9S	8/27/2019 13:41	Conductivity	1129.55	uS/cm
MR-AP-MW-9S	8/27/2019 13:41	DO	0.86	mg/L
MR-AP-MW-9S	8/27/2019 13:41	Depth to Water Detail	33.21	ft
MR-AP-MW-9S	8/27/2019 13:41	Oxidation Reduction Potention	106.47	mv
MR-AP-MW-9S	8/27/2019 13:41	pH	5.41	pH
MR-AP-MW-9S	8/27/2019 13:41	Temperature	19.37	C
MR-AP-MW-9S	8/27/2019 13:41	Turbidity	0.17	NTU
MR-AP-MW-9S	8/27/2019 13:46	Conductivity	1148.93	uS/cm
MR-AP-MW-9S	8/27/2019 13:46	DO	0.77	mg/L
MR-AP-MW-9S	8/27/2019 13:46	Depth to Water Detail	33.35	ft
MR-AP-MW-9S	8/27/2019 13:46	Oxidation Reduction Potention	107.76	mv
MR-AP-MW-9S	8/27/2019 13:46	pH	5.43	pH
MR-AP-MW-9S	8/27/2019 13:46	Temperature	19.35	C
MR-AP-MW-9S	8/27/2019 13:46	Turbidity	0.41	NTU
MR-AP-MW-9S	8/27/2019 13:51	Conductivity	1148.48	uS/cm
MR-AP-MW-9S	8/27/2019 13:51	DO	0.58	mg/L
MR-AP-MW-9S	8/27/2019 13:51	Depth to Water Detail	33.39	ft
MR-AP-MW-9S	8/27/2019 13:51	Oxidation Reduction Potention	108.81	mv
MR-AP-MW-9S	8/27/2019 13:51	pH	5.44	pH
MR-AP-MW-9S	8/27/2019 13:51	Temperature	19.32	C
MR-AP-MW-9S	8/27/2019 13:51	Turbidity	0.49	NTU
MR-AP-MW-9S	8/27/2019 13:56	Conductivity	1137.87	uS/cm
MR-AP-MW-9S	8/27/2019 13:56	DO	0.55	mg/L
MR-AP-MW-9S	8/27/2019 13:56	Depth to Water Detail	33.78	ft
MR-AP-MW-9S	8/27/2019 13:56	Oxidation Reduction Potention	109.6	mv
MR-AP-MW-9S	8/27/2019 13:56	pH	5.47	pH
MR-AP-MW-9S	8/27/2019 13:56	Temperature	19.13	C
MR-AP-MW-9S	8/27/2019 13:56	Turbidity	0.45	NTU
MR-AP-MW-9S	8/27/2019 14:01	Conductivity	1121.18	uS/cm
MR-AP-MW-9S	8/27/2019 14:01	DO	0.53	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-9S	8/27/2019 14:01	Depth to Water Detail	33.81	ft
MR-AP-MW-9S	8/27/2019 14:01	Oxidation Reduction Potention	109.85	mv
MR-AP-MW-9S	8/27/2019 14:01	pH	5.51	pH
MR-AP-MW-9S	8/27/2019 14:01	Temperature	19.18	C
MR-AP-MW-9S	8/27/2019 14:01	Turbidity	0.39	NTU
MR-AP-MW-9S	8/27/2019 14:06	Conductivity	1097.09	uS/cm
MR-AP-MW-9S	8/27/2019 14:06	DO	0.5	mg/L
MR-AP-MW-9S	8/27/2019 14:06	Depth to Water Detail	33.96	ft
MR-AP-MW-9S	8/27/2019 14:06	Oxidation Reduction Potention	109.76	mv
MR-AP-MW-9S	8/27/2019 14:06	pH	5.53	pH
MR-AP-MW-9S	8/27/2019 14:06	Temperature	19.23	C
MR-AP-MW-9S	8/27/2019 14:06	Turbidity	0.53	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-10	8/29/2019 10:45	Conductivity	1948.68	uS/cm
MR-AP-MW-10	8/29/2019 10:45	DO	0.77	mg/L
MR-AP-MW-10	8/29/2019 10:45	Depth to Water Detail	127.01	ft
MR-AP-MW-10	8/29/2019 10:45	Oxidation Reduction Potention	-47.89	mv
MR-AP-MW-10	8/29/2019 10:45	pH	7.01	pH
MR-AP-MW-10	8/29/2019 10:45	Temperature	18.32	C
MR-AP-MW-10	8/29/2019 10:45	Turbidity	0.78	NTU
MR-AP-MW-10	8/29/2019 10:50	Conductivity	1948.24	uS/cm
MR-AP-MW-10	8/29/2019 10:50	DO	0.55	mg/L
MR-AP-MW-10	8/29/2019 10:50	Depth to Water Detail	127.04	ft
MR-AP-MW-10	8/29/2019 10:50	Oxidation Reduction Potention	-49.92	mv
MR-AP-MW-10	8/29/2019 10:50	pH	6.98	pH
MR-AP-MW-10	8/29/2019 10:50	Temperature	18.22	C
MR-AP-MW-10	8/29/2019 10:50	Turbidity	0.23	NTU
MR-AP-MW-10	8/29/2019 10:55	Conductivity	1943.18	uS/cm
MR-AP-MW-10	8/29/2019 10:55	DO	0.49	mg/L
MR-AP-MW-10	8/29/2019 10:55	Depth to Water Detail	127.04	ft
MR-AP-MW-10	8/29/2019 10:55	Oxidation Reduction Potention	-51.34	mv
MR-AP-MW-10	8/29/2019 10:55	pH	6.96	pH
MR-AP-MW-10	8/29/2019 10:55	Temperature	18.24	C
MR-AP-MW-10	8/29/2019 10:55	Turbidity	0.2	NTU
MR-AP-MW-10	8/29/2019 11:00	Conductivity	1932.93	uS/cm
MR-AP-MW-10	8/29/2019 11:00	DO	0.48	mg/L
MR-AP-MW-10	8/29/2019 11:00	Depth to Water Detail	127.04	ft
MR-AP-MW-10	8/29/2019 11:00	Oxidation Reduction Potention	-52.09	mv
MR-AP-MW-10	8/29/2019 11:00	pH	6.93	pH
MR-AP-MW-10	8/29/2019 11:00	Temperature	18.32	C
MR-AP-MW-10	8/29/2019 11:00	Turbidity	0.2	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-21	8/28/2019 16:04	Conductivity	791.41	uS/cm
MR-AP-MW-21	8/28/2019 16:04	DO	0.26	mg/L
MR-AP-MW-21	8/28/2019 16:04	Depth to Water Detail	25.76	ft
MR-AP-MW-21	8/28/2019 16:04	Oxidation Reduction Potention	-85.12	mv
MR-AP-MW-21	8/28/2019 16:04	pH	7.39	pH
MR-AP-MW-21	8/28/2019 16:04	Temperature	19.69	C
MR-AP-MW-21	8/28/2019 16:04	Turbidity	3.45	NTU
MR-AP-MW-21	8/28/2019 16:09	Conductivity	760.98	uS/cm
MR-AP-MW-21	8/28/2019 16:09	DO	0.29	mg/L
MR-AP-MW-21	8/28/2019 16:09	Depth to Water Detail	25.76	ft
MR-AP-MW-21	8/28/2019 16:09	Oxidation Reduction Potention	-114.36	mv
MR-AP-MW-21	8/28/2019 16:09	pH	7.41	pH
MR-AP-MW-21	8/28/2019 16:09	Temperature	19.99	C
MR-AP-MW-21	8/28/2019 16:09	Turbidity	3.27	NTU
MR-AP-MW-21	8/28/2019 16:14	Conductivity	720.6	uS/cm
MR-AP-MW-21	8/28/2019 16:14	DO	0.33	mg/L
MR-AP-MW-21	8/28/2019 16:14	Depth to Water Detail	25.76	ft
MR-AP-MW-21	8/28/2019 16:14	Oxidation Reduction Potention	-135.05	mv
MR-AP-MW-21	8/28/2019 16:14	pH	7.43	pH
MR-AP-MW-21	8/28/2019 16:14	Temperature	19.81	C
MR-AP-MW-21	8/28/2019 16:14	Turbidity	2.73	NTU
MR-AP-MW-21	8/28/2019 16:19	Conductivity	707.1	uS/cm
MR-AP-MW-21	8/28/2019 16:19	DO	0.36	mg/L
MR-AP-MW-21	8/28/2019 16:19	Depth to Water Detail	25.76	ft
MR-AP-MW-21	8/28/2019 16:19	Oxidation Reduction Potention	-145.9	mv
MR-AP-MW-21	8/28/2019 16:19	pH	7.46	pH
MR-AP-MW-21	8/28/2019 16:19	Temperature	20.13	C
MR-AP-MW-21	8/28/2019 16:19	Turbidity	2.93	NTU
MR-AP-MW-21	8/28/2019 16:24	Conductivity	686.99	uS/cm
MR-AP-MW-21	8/28/2019 16:24	DO	0.38	mg/L
MR-AP-MW-21	8/28/2019 16:24	Depth to Water Detail	25.76	ft
MR-AP-MW-21	8/28/2019 16:24	Oxidation Reduction Potention	-150.97	mv
MR-AP-MW-21	8/28/2019 16:24	pH	7.45	pH
MR-AP-MW-21	8/28/2019 16:24	Temperature	20.01	C
MR-AP-MW-21	8/28/2019 16:24	Turbidity	2.3	NTU
MR-AP-MW-21	8/28/2019 16:29	Conductivity	684.38	uS/cm
MR-AP-MW-21	8/28/2019 16:29	DO	0.39	mg/L
MR-AP-MW-21	8/28/2019 16:29	Depth to Water Detail	25.76	ft
MR-AP-MW-21	8/28/2019 16:29	Oxidation Reduction Potention	-151.47	mv
MR-AP-MW-21	8/28/2019 16:29	pH	7.42	pH
MR-AP-MW-21	8/28/2019 16:29	Temperature	19.57	C
MR-AP-MW-21	8/28/2019 16:29	Turbidity	2.04	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-PZ-5	8/29/2019 8:56	Conductivity	1112.91	uS/cm
MR-AP-PZ-5	8/29/2019 8:56	DO	0.69	mg/L
MR-AP-PZ-5	8/29/2019 8:56	Depth to Water Detail	2.56	ft
MR-AP-PZ-5	8/29/2019 8:56	Oxidation Reduction Potention	78.55	mv
MR-AP-PZ-5	8/29/2019 8:56	pH	8.28	pH
MR-AP-PZ-5	8/29/2019 8:56	Temperature	23.43	C
MR-AP-PZ-5	8/29/2019 8:56	Turbidity	6.68	NTU
MR-AP-PZ-5	8/29/2019 9:01	Conductivity	1139.8	uS/cm
MR-AP-PZ-5	8/29/2019 9:01	DO	0.39	mg/L
MR-AP-PZ-5	8/29/2019 9:01	Depth to Water Detail	3.11	ft
MR-AP-PZ-5	8/29/2019 9:01	Oxidation Reduction Potention	50.89	mv
MR-AP-PZ-5	8/29/2019 9:01	pH	8.28	pH
MR-AP-PZ-5	8/29/2019 9:01	Temperature	23.34	C
MR-AP-PZ-5	8/29/2019 9:01	Turbidity	4.42	NTU
MR-AP-PZ-5	8/29/2019 9:06	Conductivity	1120.6	uS/cm
MR-AP-PZ-5	8/29/2019 9:06	DO	0.29	mg/L
MR-AP-PZ-5	8/29/2019 9:06	Depth to Water Detail	3.68	ft
MR-AP-PZ-5	8/29/2019 9:06	Oxidation Reduction Potention	24.02	mv
MR-AP-PZ-5	8/29/2019 9:06	pH	8.27	pH
MR-AP-PZ-5	8/29/2019 9:06	Temperature	23.21	C
MR-AP-PZ-5	8/29/2019 9:06	Turbidity	3.65	NTU
MR-AP-PZ-5	8/29/2019 9:11	Conductivity	1121.71	uS/cm
MR-AP-PZ-5	8/29/2019 9:11	DO	0.27	mg/L
MR-AP-PZ-5	8/29/2019 9:11	Depth to Water Detail	4.02	ft
MR-AP-PZ-5	8/29/2019 9:11	Oxidation Reduction Potention	0.67	mv
MR-AP-PZ-5	8/29/2019 9:11	pH	8.26	pH
MR-AP-PZ-5	8/29/2019 9:11	Temperature	23.14	C
MR-AP-PZ-5	8/29/2019 9:11	Turbidity	2.73	NTU
MR-AP-PZ-5	8/29/2019 9:16	Conductivity	1130.28	uS/cm
MR-AP-PZ-5	8/29/2019 9:16	DO	0.25	mg/L
MR-AP-PZ-5	8/29/2019 9:16	Depth to Water Detail	4.61	ft
MR-AP-PZ-5	8/29/2019 9:16	Oxidation Reduction Potention	-46.18	mv
MR-AP-PZ-5	8/29/2019 9:16	pH	8.27	pH
MR-AP-PZ-5	8/29/2019 9:16	Temperature	23.02	C
MR-AP-PZ-5	8/29/2019 9:16	Turbidity	2.99	NTU
MR-AP-PZ-5	8/29/2019 9:21	Conductivity	1132.9	uS/cm
MR-AP-PZ-5	8/29/2019 9:21	DO	0.32	mg/L
MR-AP-PZ-5	8/29/2019 9:21	Depth to Water Detail	4.7	ft
MR-AP-PZ-5	8/29/2019 9:21	Oxidation Reduction Potention	-107.33	mv
MR-AP-PZ-5	8/29/2019 9:21	pH	8.26	pH
MR-AP-PZ-5	8/29/2019 9:21	Temperature	23.83	C
MR-AP-PZ-5	8/29/2019 9:21	Turbidity	2.52	NTU
MR-AP-PZ-5	8/29/2019 9:26	Conductivity	1123.25	uS/cm
MR-AP-PZ-5	8/29/2019 9:26	DO	0.29	mg/L

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Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-PZ-5	8/29/2019 9:26	Depth to Water Detail	4.73	ft
MR-AP-PZ-5	8/29/2019 9:26	Oxidation Reduction Potention	-206.75	mv
MR-AP-PZ-5	8/29/2019 9:26	pH	8.26	pH
MR-AP-PZ-5	8/29/2019 9:26	Temperature	23.41	C
MR-AP-PZ-5	8/29/2019 9:26	Turbidity	2.53	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	8/27/2019 15:31	Conductivity	1328.28	uS/cm
MR-AP-MW-3D	8/27/2019 15:31	DO	0.62	mg/L
MR-AP-MW-3D	8/27/2019 15:31	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 15:31	Oxidation Reduction Potention	-98.54	mv
MR-AP-MW-3D	8/27/2019 15:31	pH	6.86	pH
MR-AP-MW-3D	8/27/2019 15:31	Temperature	19.57	C
MR-AP-MW-3D	8/27/2019 15:31	Turbidity	20.9	NTU
MR-AP-MW-3D	8/27/2019 15:36	Conductivity	1333.33	uS/cm
MR-AP-MW-3D	8/27/2019 15:36	DO	0.33	mg/L
MR-AP-MW-3D	8/27/2019 15:36	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 15:36	Oxidation Reduction Potention	-78.6	mv
MR-AP-MW-3D	8/27/2019 15:36	pH	6.78	pH
MR-AP-MW-3D	8/27/2019 15:36	Temperature	19.5	C
MR-AP-MW-3D	8/27/2019 15:36	Turbidity	9.17	NTU
MR-AP-MW-3D	8/27/2019 15:41	Conductivity	1332.65	uS/cm
MR-AP-MW-3D	8/27/2019 15:41	DO	0.28	mg/L
MR-AP-MW-3D	8/27/2019 15:41	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 15:41	Oxidation Reduction Potention	-73.79	mv
MR-AP-MW-3D	8/27/2019 15:41	pH	6.77	pH
MR-AP-MW-3D	8/27/2019 15:41	Temperature	19.55	C
MR-AP-MW-3D	8/27/2019 15:41	Turbidity	8.38	NTU
MR-AP-MW-3D	8/27/2019 15:46	Conductivity	1332.56	uS/cm
MR-AP-MW-3D	8/27/2019 15:46	DO	0.27	mg/L
MR-AP-MW-3D	8/27/2019 15:46	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 15:46	Oxidation Reduction Potention	-70.9	mv
MR-AP-MW-3D	8/27/2019 15:46	pH	6.79	pH
MR-AP-MW-3D	8/27/2019 15:46	Temperature	19.47	C
MR-AP-MW-3D	8/27/2019 15:46	Turbidity	8.12	NTU
MR-AP-MW-3D	8/27/2019 15:51	Conductivity	1331.77	uS/cm
MR-AP-MW-3D	8/27/2019 15:51	DO	0.26	mg/L
MR-AP-MW-3D	8/27/2019 15:51	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 15:51	Oxidation Reduction Potention	-68.78	mv
MR-AP-MW-3D	8/27/2019 15:51	pH	6.81	pH
MR-AP-MW-3D	8/27/2019 15:51	Temperature	19.49	C
MR-AP-MW-3D	8/27/2019 15:51	Turbidity	5.13	NTU
MR-AP-MW-3D	8/27/2019 15:56	Conductivity	1331.75	uS/cm
MR-AP-MW-3D	8/27/2019 15:56	DO	0.27	mg/L
MR-AP-MW-3D	8/27/2019 15:56	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 15:56	Oxidation Reduction Potention	-66.95	mv
MR-AP-MW-3D	8/27/2019 15:56	pH	6.82	pH
MR-AP-MW-3D	8/27/2019 15:56	Temperature	19.33	C
MR-AP-MW-3D	8/27/2019 15:56	Turbidity	6.67	NTU
MR-AP-MW-3D	8/27/2019 16:01	Conductivity	1331.92	uS/cm
MR-AP-MW-3D	8/27/2019 16:01	DO	0.27	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3D	8/27/2019 16:01	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 16:01	Oxidation Reduction Potention	-65.39	mv
MR-AP-MW-3D	8/27/2019 16:01	pH	6.83	pH
MR-AP-MW-3D	8/27/2019 16:01	Temperature	19.3	C
MR-AP-MW-3D	8/27/2019 16:01	Turbidity	5.19	NTU
MR-AP-MW-3D	8/27/2019 16:06	Conductivity	1331.56	uS/cm
MR-AP-MW-3D	8/27/2019 16:06	DO	0.27	mg/L
MR-AP-MW-3D	8/27/2019 16:06	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 16:06	Oxidation Reduction Potention	-64.12	mv
MR-AP-MW-3D	8/27/2019 16:06	pH	6.84	pH
MR-AP-MW-3D	8/27/2019 16:06	Temperature	19.41	C
MR-AP-MW-3D	8/27/2019 16:06	Turbidity	8.36	NTU
MR-AP-MW-3D	8/27/2019 16:11	Conductivity	1331.54	uS/cm
MR-AP-MW-3D	8/27/2019 16:11	DO	0.27	mg/L
MR-AP-MW-3D	8/27/2019 16:11	Depth to Water Detail	111.54	ft
MR-AP-MW-3D	8/27/2019 16:11	Oxidation Reduction Potention	-62.79	mv
MR-AP-MW-3D	8/27/2019 16:11	pH	6.84	pH
MR-AP-MW-3D	8/27/2019 16:11	Temperature	19.36	C
MR-AP-MW-3D	8/27/2019 16:11	Turbidity	7.33	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3S	8/27/2019 14:12	Conductivity	1659.24	uS/cm
MR-AP-MW-3S	8/27/2019 14:12	DO	4.86	mg/L
MR-AP-MW-3S	8/27/2019 14:12	Depth to Water Detail	88.71	ft
MR-AP-MW-3S	8/27/2019 14:12	Oxidation Reduction Potention	-282.37	mv
MR-AP-MW-3S	8/27/2019 14:12	pH	8.55	pH
MR-AP-MW-3S	8/27/2019 14:12	Temperature	24.85	C
MR-AP-MW-3S	8/27/2019 14:12	Turbidity	2.22	NTU
MR-AP-MW-3S	8/27/2019 14:17	Conductivity	1214.32	uS/cm
MR-AP-MW-3S	8/27/2019 14:17	DO	1.14	mg/L
MR-AP-MW-3S	8/27/2019 14:17	Depth to Water Detail	89.18	ft
MR-AP-MW-3S	8/27/2019 14:17	Oxidation Reduction Potention	-273.32	mv
MR-AP-MW-3S	8/27/2019 14:17	pH	9.41	pH
MR-AP-MW-3S	8/27/2019 14:17	Temperature	20.18	C
MR-AP-MW-3S	8/27/2019 14:17	Turbidity	1.59	NTU
MR-AP-MW-3S	8/27/2019 14:22	Conductivity	1181.7	uS/cm
MR-AP-MW-3S	8/27/2019 14:22	DO	0.77	mg/L
MR-AP-MW-3S	8/27/2019 14:22	Depth to Water Detail	89.37	ft
MR-AP-MW-3S	8/27/2019 14:22	Oxidation Reduction Potention	-258.96	mv
MR-AP-MW-3S	8/27/2019 14:22	pH	9.35	pH
MR-AP-MW-3S	8/27/2019 14:22	Temperature	20.1	C
MR-AP-MW-3S	8/27/2019 14:22	Turbidity	1.23	NTU
MR-AP-MW-3S	8/27/2019 14:27	Conductivity	1180.7	uS/cm
MR-AP-MW-3S	8/27/2019 14:27	DO	0.63	mg/L
MR-AP-MW-3S	8/27/2019 14:27	Depth to Water Detail	89.43	ft
MR-AP-MW-3S	8/27/2019 14:27	Oxidation Reduction Potention	-249.38	mv
MR-AP-MW-3S	8/27/2019 14:27	pH	9.31	pH
MR-AP-MW-3S	8/27/2019 14:27	Temperature	20	C
MR-AP-MW-3S	8/27/2019 14:27	Turbidity	1.33	NTU
MR-AP-MW-3S	8/27/2019 14:32	Conductivity	1188.38	uS/cm
MR-AP-MW-3S	8/27/2019 14:32	DO	0.53	mg/L
MR-AP-MW-3S	8/27/2019 14:32	Depth to Water Detail	89.48	ft
MR-AP-MW-3S	8/27/2019 14:32	Oxidation Reduction Potention	-240.65	mv
MR-AP-MW-3S	8/27/2019 14:32	pH	9.25	pH
MR-AP-MW-3S	8/27/2019 14:32	Temperature	19.84	C
MR-AP-MW-3S	8/27/2019 14:32	Turbidity	1.26	NTU
MR-AP-MW-3S	8/27/2019 14:37	Conductivity	1223.6	uS/cm
MR-AP-MW-3S	8/27/2019 14:37	DO	0.48	mg/L
MR-AP-MW-3S	8/27/2019 14:37	Depth to Water Detail	89.54	ft
MR-AP-MW-3S	8/27/2019 14:37	Oxidation Reduction Potention	-233.66	mv
MR-AP-MW-3S	8/27/2019 14:37	pH	9.23	pH
MR-AP-MW-3S	8/27/2019 14:37	Temperature	19.93	C
MR-AP-MW-3S	8/27/2019 14:37	Turbidity	1.44	NTU
MR-AP-MW-3S	8/27/2019 14:42	Conductivity	1264.73	uS/cm
MR-AP-MW-3S	8/27/2019 14:42	DO	0.44	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-3S	8/27/2019 14:42	Depth to Water Detail	89.56	ft
MR-AP-MW-3S	8/27/2019 14:42	Oxidation Reduction Potention	-227.3	mv
MR-AP-MW-3S	8/27/2019 14:42	pH	9.22	pH
MR-AP-MW-3S	8/27/2019 14:42	Temperature	19.97	C
MR-AP-MW-3S	8/27/2019 14:42	Turbidity	1.02	NTU
MR-AP-MW-3S	8/27/2019 14:47	Conductivity	1274.93	uS/cm
MR-AP-MW-3S	8/27/2019 14:47	DO	0.42	mg/L
MR-AP-MW-3S	8/27/2019 14:47	Depth to Water Detail	89.61	ft
MR-AP-MW-3S	8/27/2019 14:47	Oxidation Reduction Potention	-222.47	mv
MR-AP-MW-3S	8/27/2019 14:47	pH	9.23	pH
MR-AP-MW-3S	8/27/2019 14:47	Temperature	20.05	C
MR-AP-MW-3S	8/27/2019 14:47	Turbidity	1.5	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6	8/28/2019 16:22	Conductivity	1177.39	uS/cm
MR-AP-MW-6	8/28/2019 16:22	DO	0.17	mg/L
MR-AP-MW-6	8/28/2019 16:22	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:22	Oxidation Reduction Potention	-14.61	mv
MR-AP-MW-6	8/28/2019 16:22	pH	6.12	pH
MR-AP-MW-6	8/28/2019 16:22	Temperature	21	C
MR-AP-MW-6	8/28/2019 16:22	Turbidity	0.13	NTU
MR-AP-MW-6	8/28/2019 16:27	Conductivity	1141.77	uS/cm
MR-AP-MW-6	8/28/2019 16:27	DO	0.15	mg/L
MR-AP-MW-6	8/28/2019 16:27	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:27	Oxidation Reduction Potention	-7.42	mv
MR-AP-MW-6	8/28/2019 16:27	pH	5.96	pH
MR-AP-MW-6	8/28/2019 16:27	Temperature	20.88	C
MR-AP-MW-6	8/28/2019 16:27	Turbidity	0.2	NTU
MR-AP-MW-6	8/28/2019 16:32	Conductivity	1103.19	uS/cm
MR-AP-MW-6	8/28/2019 16:32	DO	0.14	mg/L
MR-AP-MW-6	8/28/2019 16:32	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:32	Oxidation Reduction Potention	-7.2	mv
MR-AP-MW-6	8/28/2019 16:32	pH	5.92	pH
MR-AP-MW-6	8/28/2019 16:32	Temperature	20.8	C
MR-AP-MW-6	8/28/2019 16:32	Turbidity	0.33	NTU
MR-AP-MW-6	8/28/2019 16:37	Conductivity	1066.7	uS/cm
MR-AP-MW-6	8/28/2019 16:37	DO	0.13	mg/L
MR-AP-MW-6	8/28/2019 16:37	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:37	Oxidation Reduction Potention	-9.84	mv
MR-AP-MW-6	8/28/2019 16:37	pH	5.94	pH
MR-AP-MW-6	8/28/2019 16:37	Temperature	20.7	C
MR-AP-MW-6	8/28/2019 16:37	Turbidity	0.1	NTU
MR-AP-MW-6	8/28/2019 16:42	Conductivity	1027.04	uS/cm
MR-AP-MW-6	8/28/2019 16:42	DO	0.13	mg/L
MR-AP-MW-6	8/28/2019 16:42	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:42	Oxidation Reduction Potention	-12.27	mv
MR-AP-MW-6	8/28/2019 16:42	pH	5.96	pH
MR-AP-MW-6	8/28/2019 16:42	Temperature	20.68	C
MR-AP-MW-6	8/28/2019 16:42	Turbidity	0.08	NTU
MR-AP-MW-6	8/28/2019 16:47	Conductivity	993.17	uS/cm
MR-AP-MW-6	8/28/2019 16:47	DO	0.13	mg/L
MR-AP-MW-6	8/28/2019 16:47	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:47	Oxidation Reduction Potention	-14.23	mv
MR-AP-MW-6	8/28/2019 16:47	pH	5.97	pH
MR-AP-MW-6	8/28/2019 16:47	Temperature	20.63	C
MR-AP-MW-6	8/28/2019 16:47	Turbidity	0.09	NTU
MR-AP-MW-6	8/28/2019 16:52	Conductivity	981.86	uS/cm
MR-AP-MW-6	8/28/2019 16:52	DO	0.13	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6	8/28/2019 16:52	Depth to Water Detail	0	ft
MR-AP-MW-6	8/28/2019 16:52	Oxidation Reduction Potention	-15.96	mv
MR-AP-MW-6	8/28/2019 16:52	pH	5.98	pH
MR-AP-MW-6	8/28/2019 16:52	Temperature	20.7	C
MR-AP-MW-6	8/28/2019 16:52	Turbidity	0.1	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6V	8/28/2019 14:49	Conductivity	1129.28	uS/cm
MR-AP-MW-6V	8/28/2019 14:49	DO	1.4	mg/L
MR-AP-MW-6V	8/28/2019 14:49	Depth to Water Detail	116.94	ft
MR-AP-MW-6V	8/28/2019 14:49	Oxidation Reduction Potention	-122.96	mv
MR-AP-MW-6V	8/28/2019 14:49	pH	7	pH
MR-AP-MW-6V	8/28/2019 14:49	Temperature	25.24	C
MR-AP-MW-6V	8/28/2019 14:49	Turbidity	16.2	NTU
MR-AP-MW-6V	8/28/2019 14:54	Conductivity	1100.5	uS/cm
MR-AP-MW-6V	8/28/2019 14:54	DO	1.14	mg/L
MR-AP-MW-6V	8/28/2019 14:54	Depth to Water Detail	117.03	ft
MR-AP-MW-6V	8/28/2019 14:54	Oxidation Reduction Potention	-120.48	mv
MR-AP-MW-6V	8/28/2019 14:54	pH	6.95	pH
MR-AP-MW-6V	8/28/2019 14:54	Temperature	25.03	C
MR-AP-MW-6V	8/28/2019 14:54	Turbidity	12.7	NTU
MR-AP-MW-6V	8/28/2019 14:59	Conductivity	973.92	uS/cm
MR-AP-MW-6V	8/28/2019 14:59	DO	0.92	mg/L
MR-AP-MW-6V	8/28/2019 14:59	Depth to Water Detail	117.03	ft
MR-AP-MW-6V	8/28/2019 14:59	Oxidation Reduction Potention	-119.17	mv
MR-AP-MW-6V	8/28/2019 14:59	pH	7.03	pH
MR-AP-MW-6V	8/28/2019 14:59	Temperature	23.56	C
MR-AP-MW-6V	8/28/2019 14:59	Turbidity	12.1	NTU
MR-AP-MW-6V	8/28/2019 15:04	Conductivity	881.96	uS/cm
MR-AP-MW-6V	8/28/2019 15:04	DO	0.91	mg/L
MR-AP-MW-6V	8/28/2019 15:04	Depth to Water Detail	117.03	ft
MR-AP-MW-6V	8/28/2019 15:04	Oxidation Reduction Potention	-122.21	mv
MR-AP-MW-6V	8/28/2019 15:04	pH	7.15	pH
MR-AP-MW-6V	8/28/2019 15:04	Temperature	23.82	C
MR-AP-MW-6V	8/28/2019 15:04	Turbidity	7.3	NTU
MR-AP-MW-6V	8/28/2019 15:09	Conductivity	832.21	uS/cm
MR-AP-MW-6V	8/28/2019 15:09	DO	0.96	mg/L
MR-AP-MW-6V	8/28/2019 15:09	Depth to Water Detail	117.03	ft
MR-AP-MW-6V	8/28/2019 15:09	Oxidation Reduction Potention	-126.05	mv
MR-AP-MW-6V	8/28/2019 15:09	pH	7.25	pH
MR-AP-MW-6V	8/28/2019 15:09	Temperature	23.78	C
MR-AP-MW-6V	8/28/2019 15:09	Turbidity	4.33	NTU
MR-AP-MW-6V	8/28/2019 15:14	Conductivity	811.12	uS/cm
MR-AP-MW-6V	8/28/2019 15:14	DO	0.97	mg/L
MR-AP-MW-6V	8/28/2019 15:14	Depth to Water Detail	117.03	ft
MR-AP-MW-6V	8/28/2019 15:14	Oxidation Reduction Potention	-128.6	mv
MR-AP-MW-6V	8/28/2019 15:14	pH	7.31	pH
MR-AP-MW-6V	8/28/2019 15:14	Temperature	23.18	C
MR-AP-MW-6V	8/28/2019 15:14	Turbidity	3.64	NTU
MR-AP-MW-6V	8/28/2019 15:19	Conductivity	801.33	uS/cm
MR-AP-MW-6V	8/28/2019 15:19	DO	0.95	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-6V	8/28/2019 15:19	Depth to Water Detail	117.03	ft
MR-AP-MW-6V	8/28/2019 15:19	Oxidation Reduction Potention	-131.5	mv
MR-AP-MW-6V	8/28/2019 15:19	pH	7.34	pH
MR-AP-MW-6V	8/28/2019 15:19	Temperature	23.73	C
MR-AP-MW-6V	8/28/2019 15:19	Turbidity	3.13	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-12	8/28/2019 12:42	Conductivity	3549.36	uS/cm
MR-AP-MW-12	8/28/2019 12:42	DO	1.1	mg/L
MR-AP-MW-12	8/28/2019 12:42	Depth to Water Detail	91.11	ft
MR-AP-MW-12	8/28/2019 12:42	Oxidation Reduction Potention	57.5	mv
MR-AP-MW-12	8/28/2019 12:42	pH	6.6	pH
MR-AP-MW-12	8/28/2019 12:42	Temperature	22.17	C
MR-AP-MW-12	8/28/2019 12:42	Turbidity	1.94	NTU
MR-AP-MW-12	8/28/2019 12:47	Conductivity	2915.72	uS/cm
MR-AP-MW-12	8/28/2019 12:47	DO	0.81	mg/L
MR-AP-MW-12	8/28/2019 12:47	Depth to Water Detail	92	ft
MR-AP-MW-12	8/28/2019 12:47	Oxidation Reduction Potention	39.65	mv
MR-AP-MW-12	8/28/2019 12:47	pH	6.59	pH
MR-AP-MW-12	8/28/2019 12:47	Temperature	21.9	C
MR-AP-MW-12	8/28/2019 12:47	Turbidity	2.03	NTU
MR-AP-MW-12	8/28/2019 12:52	Conductivity	2970.06	uS/cm
MR-AP-MW-12	8/28/2019 12:52	DO	0.69	mg/L
MR-AP-MW-12	8/28/2019 12:52	Depth to Water Detail	92.54	ft
MR-AP-MW-12	8/28/2019 12:52	Oxidation Reduction Potention	35.47	mv
MR-AP-MW-12	8/28/2019 12:52	pH	6.63	pH
MR-AP-MW-12	8/28/2019 12:52	Temperature	22.07	C
MR-AP-MW-12	8/28/2019 12:52	Turbidity	1.44	NTU
MR-AP-MW-12	8/28/2019 12:57	Conductivity	3097.8	uS/cm
MR-AP-MW-12	8/28/2019 12:57	DO	0.59	mg/L
MR-AP-MW-12	8/28/2019 12:57	Depth to Water Detail	92.86	ft
MR-AP-MW-12	8/28/2019 12:57	Oxidation Reduction Potention	30.64	mv
MR-AP-MW-12	8/28/2019 12:57	pH	6.64	pH
MR-AP-MW-12	8/28/2019 12:57	Temperature	22.13	C
MR-AP-MW-12	8/28/2019 12:57	Turbidity	0.8	NTU
MR-AP-MW-12	8/28/2019 13:02	Conductivity	3210.26	uS/cm
MR-AP-MW-12	8/28/2019 13:02	DO	0.53	mg/L
MR-AP-MW-12	8/28/2019 13:02	Depth to Water Detail	93.23	ft
MR-AP-MW-12	8/28/2019 13:02	Oxidation Reduction Potention	25.01	mv
MR-AP-MW-12	8/28/2019 13:02	pH	6.64	pH
MR-AP-MW-12	8/28/2019 13:02	Temperature	22.15	C
MR-AP-MW-12	8/28/2019 13:02	Turbidity	0.6	NTU
MR-AP-MW-12	8/28/2019 13:07	Conductivity	3289.1	uS/cm
MR-AP-MW-12	8/28/2019 13:07	DO	0.51	mg/L
MR-AP-MW-12	8/28/2019 13:07	Depth to Water Detail	93.45	ft
MR-AP-MW-12	8/28/2019 13:07	Oxidation Reduction Potention	20.1	mv
MR-AP-MW-12	8/28/2019 13:07	pH	6.64	pH
MR-AP-MW-12	8/28/2019 13:07	Temperature	22.25	C
MR-AP-MW-12	8/28/2019 13:07	Turbidity	0.55	NTU
MR-AP-MW-12	8/28/2019 13:12	Conductivity	3343.11	uS/cm
MR-AP-MW-12	8/28/2019 13:12	DO	0.49	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-12	8/28/2019 13:12	Depth to Water Detail	93.59	ft
MR-AP-MW-12	8/28/2019 13:12	Oxidation Reduction Potention	17.22	mv
MR-AP-MW-12	8/28/2019 13:12	pH	6.63	pH
MR-AP-MW-12	8/28/2019 13:12	Temperature	22.19	C
MR-AP-MW-12	8/28/2019 13:12	Turbidity	0.45	NTU
MR-AP-MW-12	8/28/2019 13:17	Conductivity	3395.44	uS/cm
MR-AP-MW-12	8/28/2019 13:17	DO	0.47	mg/L
MR-AP-MW-12	8/28/2019 13:17	Depth to Water Detail	93.69	ft
MR-AP-MW-12	8/28/2019 13:17	Oxidation Reduction Potention	14.47	mv
MR-AP-MW-12	8/28/2019 13:17	pH	6.63	pH
MR-AP-MW-12	8/28/2019 13:17	Temperature	22.22	C
MR-AP-MW-12	8/28/2019 13:17	Turbidity	0.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13D	8/29/2019 8:07	Conductivity	420.09	uS/cm
MR-AP-MW-13D	8/29/2019 8:07	DO	1.2	mg/L
MR-AP-MW-13D	8/29/2019 8:07	Depth to Water Detail	41.91	ft
MR-AP-MW-13D	8/29/2019 8:07	Oxidation Reduction Potention	-64.59	mv
MR-AP-MW-13D	8/29/2019 8:07	pH	6.75	pH
MR-AP-MW-13D	8/29/2019 8:07	Temperature	19.07	C
MR-AP-MW-13D	8/29/2019 8:07	Turbidity	188	NTU
MR-AP-MW-13D	8/29/2019 8:12	Conductivity	417.88	uS/cm
MR-AP-MW-13D	8/29/2019 8:12	DO	0.88	mg/L
MR-AP-MW-13D	8/29/2019 8:12	Depth to Water Detail	42.74	ft
MR-AP-MW-13D	8/29/2019 8:12	Oxidation Reduction Potention	-60.31	mv
MR-AP-MW-13D	8/29/2019 8:12	pH	6.77	pH
MR-AP-MW-13D	8/29/2019 8:12	Temperature	19.08	C
MR-AP-MW-13D	8/29/2019 8:12	Turbidity	85.2	NTU
MR-AP-MW-13D	8/29/2019 8:17	Conductivity	416.06	uS/cm
MR-AP-MW-13D	8/29/2019 8:17	DO	0.71	mg/L
MR-AP-MW-13D	8/29/2019 8:17	Depth to Water Detail	43.53	ft
MR-AP-MW-13D	8/29/2019 8:17	Oxidation Reduction Potention	-57.95	mv
MR-AP-MW-13D	8/29/2019 8:17	pH	6.78	pH
MR-AP-MW-13D	8/29/2019 8:17	Temperature	18.97	C
MR-AP-MW-13D	8/29/2019 8:17	Turbidity	40.1	NTU
MR-AP-MW-13D	8/29/2019 8:22	Conductivity	446.85	uS/cm
MR-AP-MW-13D	8/29/2019 8:22	DO	0.55	mg/L
MR-AP-MW-13D	8/29/2019 8:22	Depth to Water Detail	44.3	ft
MR-AP-MW-13D	8/29/2019 8:22	Oxidation Reduction Potention	-56.05	mv
MR-AP-MW-13D	8/29/2019 8:22	pH	6.79	pH
MR-AP-MW-13D	8/29/2019 8:22	Temperature	18.96	C
MR-AP-MW-13D	8/29/2019 8:22	Turbidity	19.7	NTU
MR-AP-MW-13D	8/29/2019 8:27	Conductivity	444.89	uS/cm
MR-AP-MW-13D	8/29/2019 8:27	DO	0.51	mg/L
MR-AP-MW-13D	8/29/2019 8:27	Depth to Water Detail	44.88	ft
MR-AP-MW-13D	8/29/2019 8:27	Oxidation Reduction Potention	-54.75	mv
MR-AP-MW-13D	8/29/2019 8:27	pH	6.79	pH
MR-AP-MW-13D	8/29/2019 8:27	Temperature	19	C
MR-AP-MW-13D	8/29/2019 8:27	Turbidity	10.1	NTU
MR-AP-MW-13D	8/29/2019 8:32	Conductivity	442.76	uS/cm
MR-AP-MW-13D	8/29/2019 8:32	DO	0.48	mg/L
MR-AP-MW-13D	8/29/2019 8:32	Depth to Water Detail	45.34	ft
MR-AP-MW-13D	8/29/2019 8:32	Oxidation Reduction Potention	-53.88	mv
MR-AP-MW-13D	8/29/2019 8:32	pH	6.8	pH
MR-AP-MW-13D	8/29/2019 8:32	Temperature	19.07	C
MR-AP-MW-13D	8/29/2019 8:32	Turbidity	8.31	NTU
MR-AP-MW-13D	8/29/2019 8:37	Conductivity	440.91	uS/cm
MR-AP-MW-13D	8/29/2019 8:37	DO	0.47	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13D	8/29/2019 8:37	Depth to Water Detail	45.68	ft
MR-AP-MW-13D	8/29/2019 8:37	Oxidation Reduction Potention	-52.53	mv
MR-AP-MW-13D	8/29/2019 8:37	pH	6.78	pH
MR-AP-MW-13D	8/29/2019 8:37	Temperature	19.13	C
MR-AP-MW-13D	8/29/2019 8:37	Turbidity	4.56	NTU
MR-AP-MW-13D	8/29/2019 8:42	Conductivity	439.4	uS/cm
MR-AP-MW-13D	8/29/2019 8:42	DO	0.46	mg/L
MR-AP-MW-13D	8/29/2019 8:42	Depth to Water Detail	46.02	ft
MR-AP-MW-13D	8/29/2019 8:42	Oxidation Reduction Potention	-50.83	mv
MR-AP-MW-13D	8/29/2019 8:42	pH	6.77	pH
MR-AP-MW-13D	8/29/2019 8:42	Temperature	19.22	C
MR-AP-MW-13D	8/29/2019 8:42	Turbidity	3.84	NTU
MR-AP-MW-13D	8/29/2019 8:47	Conductivity	437.64	uS/cm
MR-AP-MW-13D	8/29/2019 8:47	DO	0.45	mg/L
MR-AP-MW-13D	8/29/2019 8:47	Depth to Water Detail	46.28	ft
MR-AP-MW-13D	8/29/2019 8:47	Oxidation Reduction Potention	-51.13	mv
MR-AP-MW-13D	8/29/2019 8:47	pH	6.78	pH
MR-AP-MW-13D	8/29/2019 8:47	Temperature	19.21	C
MR-AP-MW-13D	8/29/2019 8:47	Turbidity	2.9	NTU
MR-AP-MW-13D	8/29/2019 8:52	Conductivity	433.88	uS/cm
MR-AP-MW-13D	8/29/2019 8:52	DO	0.45	mg/L
MR-AP-MW-13D	8/29/2019 8:52	Depth to Water Detail	46.42	ft
MR-AP-MW-13D	8/29/2019 8:52	Oxidation Reduction Potention	-51.46	mv
MR-AP-MW-13D	8/29/2019 8:52	pH	6.8	pH
MR-AP-MW-13D	8/29/2019 8:52	Temperature	19.2	C
MR-AP-MW-13D	8/29/2019 8:52	Turbidity	2.54	NTU
MR-AP-MW-13D	8/29/2019 8:57	Conductivity	432.08	uS/cm
MR-AP-MW-13D	8/29/2019 8:57	DO	0.45	mg/L
MR-AP-MW-13D	8/29/2019 8:57	Depth to Water Detail	46.56	ft
MR-AP-MW-13D	8/29/2019 8:57	Oxidation Reduction Potention	-51.32	mv
MR-AP-MW-13D	8/29/2019 8:57	pH	6.8	pH
MR-AP-MW-13D	8/29/2019 8:57	Temperature	19.24	C
MR-AP-MW-13D	8/29/2019 8:57	Turbidity	2.33	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13S	8/29/2019 10:22	Conductivity	349.1	uS/cm
MR-AP-MW-13S	8/29/2019 10:22	DO	0.19	mg/L
MR-AP-MW-13S	8/29/2019 10:22	Depth to Water Detail	20.01	ft
MR-AP-MW-13S	8/29/2019 10:22	Oxidation Reduction Potention	47.92	mv
MR-AP-MW-13S	8/29/2019 10:22	pH	5.64	pH
MR-AP-MW-13S	8/29/2019 10:22	Temperature	18.68	C
MR-AP-MW-13S	8/29/2019 10:22	Turbidity	4.89	NTU
MR-AP-MW-13S	8/29/2019 10:27	Conductivity	370.94	uS/cm
MR-AP-MW-13S	8/29/2019 10:27	DO	0.19	mg/L
MR-AP-MW-13S	8/29/2019 10:27	Depth to Water Detail	20.06	ft
MR-AP-MW-13S	8/29/2019 10:27	Oxidation Reduction Potention	47.06	mv
MR-AP-MW-13S	8/29/2019 10:27	pH	5.65	pH
MR-AP-MW-13S	8/29/2019 10:27	Temperature	18.61	C
MR-AP-MW-13S	8/29/2019 10:27	Turbidity	4.81	NTU
MR-AP-MW-13S	8/29/2019 10:32	Conductivity	369.43	uS/cm
MR-AP-MW-13S	8/29/2019 10:32	DO	0.19	mg/L
MR-AP-MW-13S	8/29/2019 10:32	Depth to Water Detail	20.08	ft
MR-AP-MW-13S	8/29/2019 10:32	Oxidation Reduction Potention	46.59	mv
MR-AP-MW-13S	8/29/2019 10:32	pH	5.65	pH
MR-AP-MW-13S	8/29/2019 10:32	Temperature	18.6	C
MR-AP-MW-13S	8/29/2019 10:32	Turbidity	4.08	NTU
MR-AP-MW-13S	8/29/2019 10:37	Conductivity	345.36	uS/cm
MR-AP-MW-13S	8/29/2019 10:37	DO	0.18	mg/L
MR-AP-MW-13S	8/29/2019 10:37	Depth to Water Detail	20.11	ft
MR-AP-MW-13S	8/29/2019 10:37	Oxidation Reduction Potention	46.24	mv
MR-AP-MW-13S	8/29/2019 10:37	pH	5.66	pH
MR-AP-MW-13S	8/29/2019 10:37	Temperature	18.69	C
MR-AP-MW-13S	8/29/2019 10:37	Turbidity	4.24	NTU
MR-AP-MW-13S	8/29/2019 10:42	Conductivity	381.36	uS/cm
MR-AP-MW-13S	8/29/2019 10:42	DO	0.19	mg/L
MR-AP-MW-13S	8/29/2019 10:42	Depth to Water Detail	20.13	ft
MR-AP-MW-13S	8/29/2019 10:42	Oxidation Reduction Potention	46.79	mv
MR-AP-MW-13S	8/29/2019 10:42	pH	5.6	pH
MR-AP-MW-13S	8/29/2019 10:42	Temperature	18.76	C
MR-AP-MW-13S	8/29/2019 10:42	Turbidity	4.17	NTU
MR-AP-MW-13S	8/29/2019 10:47	Conductivity	362.15	uS/cm
MR-AP-MW-13S	8/29/2019 10:47	DO	0.18	mg/L
MR-AP-MW-13S	8/29/2019 10:47	Depth to Water Detail	20.15	ft
MR-AP-MW-13S	8/29/2019 10:47	Oxidation Reduction Potention	47.41	mv
MR-AP-MW-13S	8/29/2019 10:47	pH	5.64	pH
MR-AP-MW-13S	8/29/2019 10:47	Temperature	18.83	C
MR-AP-MW-13S	8/29/2019 10:47	Turbidity	4.13	NTU
MR-AP-MW-13S	8/29/2019 10:52	Conductivity	346.26	uS/cm
MR-AP-MW-13S	8/29/2019 10:52	DO	0.18	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-13S	8/29/2019 10:52	Depth to Water Detail	20.18	ft
MR-AP-MW-13S	8/29/2019 10:52	Oxidation Reduction Potention	46.92	mv
MR-AP-MW-13S	8/29/2019 10:52	pH	5.65	pH
MR-AP-MW-13S	8/29/2019 10:52	Temperature	18.84	C
MR-AP-MW-13S	8/29/2019 10:52	Turbidity	4.21	NTU
MR-AP-MW-13S	8/29/2019 10:57	Conductivity	389.9	uS/cm
MR-AP-MW-13S	8/29/2019 10:57	DO	0.18	mg/L
MR-AP-MW-13S	8/29/2019 10:57	Depth to Water Detail	20.22	ft
MR-AP-MW-13S	8/29/2019 10:57	Oxidation Reduction Potention	45.77	mv
MR-AP-MW-13S	8/29/2019 10:57	pH	5.66	pH
MR-AP-MW-13S	8/29/2019 10:57	Temperature	18.76	C
MR-AP-MW-13S	8/29/2019 10:57	Turbidity	4.14	NTU
MR-AP-MW-13S	8/29/2019 11:02	Conductivity	381.29	uS/cm
MR-AP-MW-13S	8/29/2019 11:02	DO	0.18	mg/L
MR-AP-MW-13S	8/29/2019 11:02	Depth to Water Detail	20.26	ft
MR-AP-MW-13S	8/29/2019 11:02	Oxidation Reduction Potention	44.78	mv
MR-AP-MW-13S	8/29/2019 11:02	pH	5.67	pH
MR-AP-MW-13S	8/29/2019 11:02	Temperature	18.64	C
MR-AP-MW-13S	8/29/2019 11:02	Turbidity	2.24	NTU
MR-AP-MW-13S	8/29/2019 11:07	Conductivity	400.13	uS/cm
MR-AP-MW-13S	8/29/2019 11:07	DO	0.18	mg/L
MR-AP-MW-13S	8/29/2019 11:07	Depth to Water Detail	20.29	ft
MR-AP-MW-13S	8/29/2019 11:07	Oxidation Reduction Potention	44.61	mv
MR-AP-MW-13S	8/29/2019 11:07	pH	5.67	pH
MR-AP-MW-13S	8/29/2019 11:07	Temperature	18.64	C
MR-AP-MW-13S	8/29/2019 11:07	Turbidity	2.17	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-14	8/28/2019 11:27	Conductivity	322.21	uS/cm
MR-AP-MW-14	8/28/2019 11:27	DO	0.31	mg/L
MR-AP-MW-14	8/28/2019 11:27	Depth to Water Detail	23.55	ft
MR-AP-MW-14	8/28/2019 11:27	Oxidation Reduction Potention	42.11	mv
MR-AP-MW-14	8/28/2019 11:27	pH	6.31	pH
MR-AP-MW-14	8/28/2019 11:27	Temperature	18.99	C
MR-AP-MW-14	8/28/2019 11:27	Turbidity	168	NTU
MR-AP-MW-14	8/28/2019 11:32	Conductivity	318.9	uS/cm
MR-AP-MW-14	8/28/2019 11:32	DO	0.28	mg/L
MR-AP-MW-14	8/28/2019 11:32	Depth to Water Detail	23.73	ft
MR-AP-MW-14	8/28/2019 11:32	Oxidation Reduction Potention	44.5	mv
MR-AP-MW-14	8/28/2019 11:32	pH	6.21	pH
MR-AP-MW-14	8/28/2019 11:32	Temperature	18.83	C
MR-AP-MW-14	8/28/2019 11:32	Turbidity	129	NTU
MR-AP-MW-14	8/28/2019 11:37	Conductivity	316.56	uS/cm
MR-AP-MW-14	8/28/2019 11:37	DO	0.28	mg/L
MR-AP-MW-14	8/28/2019 11:37	Depth to Water Detail	23.94	ft
MR-AP-MW-14	8/28/2019 11:37	Oxidation Reduction Potention	42.49	mv
MR-AP-MW-14	8/28/2019 11:37	pH	6.21	pH
MR-AP-MW-14	8/28/2019 11:37	Temperature	18.75	C
MR-AP-MW-14	8/28/2019 11:37	Turbidity	20.7	NTU
MR-AP-MW-14	8/28/2019 11:42	Conductivity	313.36	uS/cm
MR-AP-MW-14	8/28/2019 11:42	DO	0.27	mg/L
MR-AP-MW-14	8/28/2019 11:42	Depth to Water Detail	24.03	ft
MR-AP-MW-14	8/28/2019 11:42	Oxidation Reduction Potention	37.94	mv
MR-AP-MW-14	8/28/2019 11:42	pH	6.24	pH
MR-AP-MW-14	8/28/2019 11:42	Temperature	18.7	C
MR-AP-MW-14	8/28/2019 11:42	Turbidity	11.1	NTU
MR-AP-MW-14	8/28/2019 11:47	Conductivity	310.03	uS/cm
MR-AP-MW-14	8/28/2019 11:47	DO	0.23	mg/L
MR-AP-MW-14	8/28/2019 11:47	Depth to Water Detail	24.11	ft
MR-AP-MW-14	8/28/2019 11:47	Oxidation Reduction Potention	35.12	mv
MR-AP-MW-14	8/28/2019 11:47	pH	6.28	pH
MR-AP-MW-14	8/28/2019 11:47	Temperature	18.8	C
MR-AP-MW-14	8/28/2019 11:47	Turbidity	6.76	NTU
MR-AP-MW-14	8/28/2019 11:52	Conductivity	305.09	uS/cm
MR-AP-MW-14	8/28/2019 11:52	DO	0.22	mg/L
MR-AP-MW-14	8/28/2019 11:52	Depth to Water Detail	24.17	ft
MR-AP-MW-14	8/28/2019 11:52	Oxidation Reduction Potention	27.98	mv
MR-AP-MW-14	8/28/2019 11:52	pH	6.31	pH
MR-AP-MW-14	8/28/2019 11:52	Temperature	18.83	C
MR-AP-MW-14	8/28/2019 11:52	Turbidity	3.47	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-15	8/28/2019 8:51	Conductivity	534.65	uS/cm
MR-AP-MW-15	8/28/2019 8:51	DO	0.35	mg/L
MR-AP-MW-15	8/28/2019 8:51	Depth to Water Detail	15.01	ft
MR-AP-MW-15	8/28/2019 8:51	Oxidation Reduction Potention	10.61	mv
MR-AP-MW-15	8/28/2019 8:51	pH	6.23	pH
MR-AP-MW-15	8/28/2019 8:51	Temperature	19.83	C
MR-AP-MW-15	8/28/2019 8:51	Turbidity	21.5	NTU
MR-AP-MW-15	8/28/2019 8:56	Conductivity	528.33	uS/cm
MR-AP-MW-15	8/28/2019 8:56	DO	0.27	mg/L
MR-AP-MW-15	8/28/2019 8:56	Depth to Water Detail	15.14	ft
MR-AP-MW-15	8/28/2019 8:56	Oxidation Reduction Potention	6.02	mv
MR-AP-MW-15	8/28/2019 8:56	pH	6.24	pH
MR-AP-MW-15	8/28/2019 8:56	Temperature	19.79	C
MR-AP-MW-15	8/28/2019 8:56	Turbidity	25	NTU
MR-AP-MW-15	8/28/2019 9:01	Conductivity	525.6	uS/cm
MR-AP-MW-15	8/28/2019 9:01	DO	0.21	mg/L
MR-AP-MW-15	8/28/2019 9:01	Depth to Water Detail	15.21	ft
MR-AP-MW-15	8/28/2019 9:01	Oxidation Reduction Potention	1	mv
MR-AP-MW-15	8/28/2019 9:01	pH	6.29	pH
MR-AP-MW-15	8/28/2019 9:01	Temperature	19.79	C
MR-AP-MW-15	8/28/2019 9:01	Turbidity	18.6	NTU
MR-AP-MW-15	8/28/2019 9:06	Conductivity	518	uS/cm
MR-AP-MW-15	8/28/2019 9:06	DO	0.17	mg/L
MR-AP-MW-15	8/28/2019 9:06	Depth to Water Detail	15.32	ft
MR-AP-MW-15	8/28/2019 9:06	Oxidation Reduction Potention	-2.31	mv
MR-AP-MW-15	8/28/2019 9:06	pH	6.32	pH
MR-AP-MW-15	8/28/2019 9:06	Temperature	19.69	C
MR-AP-MW-15	8/28/2019 9:06	Turbidity	36.3	NTU
MR-AP-MW-15	8/28/2019 9:11	Conductivity	515.28	uS/cm
MR-AP-MW-15	8/28/2019 9:11	DO	0.14	mg/L
MR-AP-MW-15	8/28/2019 9:11	Depth to Water Detail	15.34	ft
MR-AP-MW-15	8/28/2019 9:11	Oxidation Reduction Potention	-3.54	mv
MR-AP-MW-15	8/28/2019 9:11	pH	6.34	pH
MR-AP-MW-15	8/28/2019 9:11	Temperature	19.75	C
MR-AP-MW-15	8/28/2019 9:11	Turbidity	19.9	NTU
MR-AP-MW-15	8/28/2019 9:16	Conductivity	498.25	uS/cm
MR-AP-MW-15	8/28/2019 9:16	DO	0.12	mg/L
MR-AP-MW-15	8/28/2019 9:16	Depth to Water Detail	15.38	ft
MR-AP-MW-15	8/28/2019 9:16	Oxidation Reduction Potention	-6.48	mv
MR-AP-MW-15	8/28/2019 9:16	pH	6.37	pH
MR-AP-MW-15	8/28/2019 9:16	Temperature	19.8	C
MR-AP-MW-15	8/28/2019 9:16	Turbidity	13.8	NTU
MR-AP-MW-15	8/28/2019 9:21	Conductivity	496.75	uS/cm
MR-AP-MW-15	8/28/2019 9:21	DO	0.08	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-15	8/28/2019 9:21	Depth to Water Detail	15.44	ft
MR-AP-MW-15	8/28/2019 9:21	Oxidation Reduction Potention	-8.25	mv
MR-AP-MW-15	8/28/2019 9:21	pH	6.38	pH
MR-AP-MW-15	8/28/2019 9:21	Temperature	19.82	C
MR-AP-MW-15	8/28/2019 9:21	Turbidity	9.89	NTU
MR-AP-MW-15	8/28/2019 9:26	Conductivity	486.05	uS/cm
MR-AP-MW-15	8/28/2019 9:26	DO	0.08	mg/L
MR-AP-MW-15	8/28/2019 9:26	Depth to Water Detail	15.48	ft
MR-AP-MW-15	8/28/2019 9:26	Oxidation Reduction Potention	-7.45	mv
MR-AP-MW-15	8/28/2019 9:26	pH	6.38	pH
MR-AP-MW-15	8/28/2019 9:26	Temperature	19.85	C
MR-AP-MW-15	8/28/2019 9:26	Turbidity	14.8	NTU
MR-AP-MW-15	8/28/2019 9:31	Conductivity	488.03	uS/cm
MR-AP-MW-15	8/28/2019 9:31	DO	0.08	mg/L
MR-AP-MW-15	8/28/2019 9:31	Depth to Water Detail	15.54	ft
MR-AP-MW-15	8/28/2019 9:31	Oxidation Reduction Potention	-7.06	mv
MR-AP-MW-15	8/28/2019 9:31	pH	6.37	pH
MR-AP-MW-15	8/28/2019 9:31	Temperature	19.91	C
MR-AP-MW-15	8/28/2019 9:31	Turbidity	30.1	NTU
MR-AP-MW-15	8/28/2019 9:36	Conductivity	481.45	uS/cm
MR-AP-MW-15	8/28/2019 9:36	DO	0.08	mg/L
MR-AP-MW-15	8/28/2019 9:36	Depth to Water Detail	15.55	ft
MR-AP-MW-15	8/28/2019 9:36	Oxidation Reduction Potention	-6.42	mv
MR-AP-MW-15	8/28/2019 9:36	pH	6.38	pH
MR-AP-MW-15	8/28/2019 9:36	Temperature	19.95	C
MR-AP-MW-15	8/28/2019 9:36	Turbidity	9.85	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-16	8/28/2019 10:19	Conductivity	867.63	uS/cm
MR-AP-MW-16	8/28/2019 10:19	DO	0.24	mg/L
MR-AP-MW-16	8/28/2019 10:19	Depth to Water Detail	31.41	ft
MR-AP-MW-16	8/28/2019 10:19	Oxidation Reduction Potention	109.43	mv
MR-AP-MW-16	8/28/2019 10:19	pH	6.62	pH
MR-AP-MW-16	8/28/2019 10:19	Temperature	19.88	C
MR-AP-MW-16	8/28/2019 10:19	Turbidity	1.45	NTU
MR-AP-MW-16	8/28/2019 10:24	Conductivity	864.14	uS/cm
MR-AP-MW-16	8/28/2019 10:24	DO	0.19	mg/L
MR-AP-MW-16	8/28/2019 10:24	Depth to Water Detail	31.49	ft
MR-AP-MW-16	8/28/2019 10:24	Oxidation Reduction Potention	114.15	mv
MR-AP-MW-16	8/28/2019 10:24	pH	6.46	pH
MR-AP-MW-16	8/28/2019 10:24	Temperature	19.87	C
MR-AP-MW-16	8/28/2019 10:24	Turbidity	0.47	NTU
MR-AP-MW-16	8/28/2019 10:29	Conductivity	854.74	uS/cm
MR-AP-MW-16	8/28/2019 10:29	DO	0.23	mg/L
MR-AP-MW-16	8/28/2019 10:29	Depth to Water Detail	31.49	ft
MR-AP-MW-16	8/28/2019 10:29	Oxidation Reduction Potention	114.5	mv
MR-AP-MW-16	8/28/2019 10:29	pH	6.37	pH
MR-AP-MW-16	8/28/2019 10:29	Temperature	19.73	C
MR-AP-MW-16	8/28/2019 10:29	Turbidity	0.31	NTU
MR-AP-MW-16	8/28/2019 10:34	Conductivity	851.93	uS/cm
MR-AP-MW-16	8/28/2019 10:34	DO	0.37	mg/L
MR-AP-MW-16	8/28/2019 10:34	Depth to Water Detail	31.49	ft
MR-AP-MW-16	8/28/2019 10:34	Oxidation Reduction Potention	114.15	mv
MR-AP-MW-16	8/28/2019 10:34	pH	6.34	pH
MR-AP-MW-16	8/28/2019 10:34	Temperature	19.7	C
MR-AP-MW-16	8/28/2019 10:34	Turbidity	0.22	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-17H	8/27/2019 10:12	Conductivity	564.44	uS/cm
MR-AP-MW-17H	8/27/2019 10:12	DO	0.22	mg/L
MR-AP-MW-17H	8/27/2019 10:12	Depth to Water Detail	21.61	ft
MR-AP-MW-17H	8/27/2019 10:12	Oxidation Reduction Potention	59.05	mv
MR-AP-MW-17H	8/27/2019 10:12	pH	6.95	pH
MR-AP-MW-17H	8/27/2019 10:12	Temperature	17.74	C
MR-AP-MW-17H	8/27/2019 10:12	Turbidity	0.36	NTU
MR-AP-MW-17H	8/27/2019 10:17	Conductivity	694.31	uS/cm
MR-AP-MW-17H	8/27/2019 10:17	DO	2.57	mg/L
MR-AP-MW-17H	8/27/2019 10:17	Depth to Water Detail	21.63	ft
MR-AP-MW-17H	8/27/2019 10:17	Oxidation Reduction Potention	76.93	mv
MR-AP-MW-17H	8/27/2019 10:17	pH	6.99	pH
MR-AP-MW-17H	8/27/2019 10:17	Temperature	18.12	C
MR-AP-MW-17H	8/27/2019 10:17	Turbidity	0.62	NTU
MR-AP-MW-17H	8/27/2019 10:22	Conductivity	704.72	uS/cm
MR-AP-MW-17H	8/27/2019 10:22	DO	0.24	mg/L
MR-AP-MW-17H	8/27/2019 10:22	Depth to Water Detail	21.63	ft
MR-AP-MW-17H	8/27/2019 10:22	Oxidation Reduction Potention	48.11	mv
MR-AP-MW-17H	8/27/2019 10:22	pH	6.97	pH
MR-AP-MW-17H	8/27/2019 10:22	Temperature	17.58	C
MR-AP-MW-17H	8/27/2019 10:22	Turbidity	0.71	NTU
MR-AP-MW-17H	8/27/2019 10:27	Conductivity	706.33	uS/cm
MR-AP-MW-17H	8/27/2019 10:27	DO	0.21	mg/L
MR-AP-MW-17H	8/27/2019 10:27	Depth to Water Detail	21.63	ft
MR-AP-MW-17H	8/27/2019 10:27	Oxidation Reduction Potention	33.55	mv
MR-AP-MW-17H	8/27/2019 10:27	pH	6.97	pH
MR-AP-MW-17H	8/27/2019 10:27	Temperature	17.74	C
MR-AP-MW-17H	8/27/2019 10:27	Turbidity	0.77	NTU
MR-AP-MW-17H	8/27/2019 10:32	Conductivity	706	uS/cm
MR-AP-MW-17H	8/27/2019 10:32	DO	0.2	mg/L
MR-AP-MW-17H	8/27/2019 10:32	Depth to Water Detail	21.63	ft
MR-AP-MW-17H	8/27/2019 10:32	Oxidation Reduction Potention	23.45	mv
MR-AP-MW-17H	8/27/2019 10:32	pH	6.98	pH
MR-AP-MW-17H	8/27/2019 10:32	Temperature	17.63	C
MR-AP-MW-17H	8/27/2019 10:32	Turbidity	0.85	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	8/27/2019 11:47	Conductivity	1481.03	uS/cm
MR-AP-MW-18H	8/27/2019 11:47	DO	1.44	mg/L
MR-AP-MW-18H	8/27/2019 11:47	Depth to Water Detail	164.74	ft
MR-AP-MW-18H	8/27/2019 11:47	Oxidation Reduction Potention	12.63	mv
MR-AP-MW-18H	8/27/2019 11:47	pH	7.22	pH
MR-AP-MW-18H	8/27/2019 11:47	Temperature	21.51	C
MR-AP-MW-18H	8/27/2019 11:47	Turbidity	1.54	NTU
MR-AP-MW-18H	8/27/2019 11:52	Conductivity	1485.03	uS/cm
MR-AP-MW-18H	8/27/2019 11:52	DO	1.04	mg/L
MR-AP-MW-18H	8/27/2019 11:52	Depth to Water Detail	165.32	ft
MR-AP-MW-18H	8/27/2019 11:52	Oxidation Reduction Potention	-22.47	mv
MR-AP-MW-18H	8/27/2019 11:52	pH	7.26	pH
MR-AP-MW-18H	8/27/2019 11:52	Temperature	21.6	C
MR-AP-MW-18H	8/27/2019 11:52	Turbidity	1.69	NTU
MR-AP-MW-18H	8/27/2019 11:57	Conductivity	1481.96	uS/cm
MR-AP-MW-18H	8/27/2019 11:57	DO	4.58	mg/L
MR-AP-MW-18H	8/27/2019 11:57	Depth to Water Detail	165.7	ft
MR-AP-MW-18H	8/27/2019 11:57	Oxidation Reduction Potention	-14.99	mv
MR-AP-MW-18H	8/27/2019 11:57	pH	7.45	pH
MR-AP-MW-18H	8/27/2019 11:57	Temperature	22.48	C
MR-AP-MW-18H	8/27/2019 11:57	Turbidity	1.67	NTU
MR-AP-MW-18H	8/27/2019 12:02	Conductivity	1483.4	uS/cm
MR-AP-MW-18H	8/27/2019 12:02	DO	0.92	mg/L
MR-AP-MW-18H	8/27/2019 12:02	Depth to Water Detail	166.09	ft
MR-AP-MW-18H	8/27/2019 12:02	Oxidation Reduction Potention	-44.96	mv
MR-AP-MW-18H	8/27/2019 12:02	pH	7.28	pH
MR-AP-MW-18H	8/27/2019 12:02	Temperature	22.02	C
MR-AP-MW-18H	8/27/2019 12:02	Turbidity	1.53	NTU
MR-AP-MW-18H	8/27/2019 12:07	Conductivity	1483	uS/cm
MR-AP-MW-18H	8/27/2019 12:07	DO	0.88	mg/L
MR-AP-MW-18H	8/27/2019 12:07	Depth to Water Detail	166.49	ft
MR-AP-MW-18H	8/27/2019 12:07	Oxidation Reduction Potention	-52.75	mv
MR-AP-MW-18H	8/27/2019 12:07	pH	7.28	pH
MR-AP-MW-18H	8/27/2019 12:07	Temperature	21.95	C
MR-AP-MW-18H	8/27/2019 12:07	Turbidity	0.89	NTU
MR-AP-MW-18H	8/27/2019 12:12	Conductivity	1484.1	uS/cm
MR-AP-MW-18H	8/27/2019 12:12	DO	0.89	mg/L
MR-AP-MW-18H	8/27/2019 12:12	Depth to Water Detail	166.77	ft
MR-AP-MW-18H	8/27/2019 12:12	Oxidation Reduction Potention	-57.01	mv
MR-AP-MW-18H	8/27/2019 12:12	pH	7.29	pH
MR-AP-MW-18H	8/27/2019 12:12	Temperature	22.14	C
MR-AP-MW-18H	8/27/2019 12:12	Turbidity	0.81	NTU
MR-AP-MW-18H	8/27/2019 12:17	Conductivity	1485.83	uS/cm
MR-AP-MW-18H	8/27/2019 12:17	DO	0.86	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	8/27/2019 12:17	Depth to Water Detail	167.12	ft
MR-AP-MW-18H	8/27/2019 12:17	Oxidation Reduction Potention	-62.39	mv
MR-AP-MW-18H	8/27/2019 12:17	pH	7.29	pH
MR-AP-MW-18H	8/27/2019 12:17	Temperature	22.09	C
MR-AP-MW-18H	8/27/2019 12:17	Turbidity	0.66	NTU
MR-AP-MW-18H	8/27/2019 12:22	Conductivity	1485.58	uS/cm
MR-AP-MW-18H	8/27/2019 12:22	DO	0.91	mg/L
MR-AP-MW-18H	8/27/2019 12:22	Depth to Water Detail	167.36	ft
MR-AP-MW-18H	8/27/2019 12:22	Oxidation Reduction Potention	-63.84	mv
MR-AP-MW-18H	8/27/2019 12:22	pH	7.27	pH
MR-AP-MW-18H	8/27/2019 12:22	Temperature	22.72	C
MR-AP-MW-18H	8/27/2019 12:22	Turbidity	0.67	NTU
MR-AP-MW-18H	8/27/2019 12:27	Conductivity	1487.74	uS/cm
MR-AP-MW-18H	8/27/2019 12:27	DO	0.85	mg/L
MR-AP-MW-18H	8/27/2019 12:27	Depth to Water Detail	167.61	ft
MR-AP-MW-18H	8/27/2019 12:27	Oxidation Reduction Potention	-68.29	mv
MR-AP-MW-18H	8/27/2019 12:27	pH	7.29	pH
MR-AP-MW-18H	8/27/2019 12:27	Temperature	22.37	C
MR-AP-MW-18H	8/27/2019 12:27	Turbidity	0.46	NTU
MR-AP-MW-18H	8/27/2019 12:32	Conductivity	1482.44	uS/cm
MR-AP-MW-18H	8/27/2019 12:32	DO	0.86	mg/L
MR-AP-MW-18H	8/27/2019 12:32	Depth to Water Detail	167.89	ft
MR-AP-MW-18H	8/27/2019 12:32	Oxidation Reduction Potention	-68.02	mv
MR-AP-MW-18H	8/27/2019 12:32	pH	7.28	pH
MR-AP-MW-18H	8/27/2019 12:32	Temperature	21.37	C
MR-AP-MW-18H	8/27/2019 12:32	Turbidity	0.6	NTU
MR-AP-MW-18H	8/27/2019 12:37	Conductivity	1483.76	uS/cm
MR-AP-MW-18H	8/27/2019 12:37	DO	0.85	mg/L
MR-AP-MW-18H	8/27/2019 12:37	Depth to Water Detail	168.14	ft
MR-AP-MW-18H	8/27/2019 12:37	Oxidation Reduction Potention	-68.33	mv
MR-AP-MW-18H	8/27/2019 12:37	pH	7.29	pH
MR-AP-MW-18H	8/27/2019 12:37	Temperature	21.57	C
MR-AP-MW-18H	8/27/2019 12:37	Turbidity	0.48	NTU
MR-AP-MW-18H	8/27/2019 12:42	Conductivity	1483.7	uS/cm
MR-AP-MW-18H	8/27/2019 12:42	DO	0.87	mg/L
MR-AP-MW-18H	8/27/2019 12:42	Depth to Water Detail	168.32	ft
MR-AP-MW-18H	8/27/2019 12:42	Oxidation Reduction Potention	-68.69	mv
MR-AP-MW-18H	8/27/2019 12:42	pH	7.29	pH
MR-AP-MW-18H	8/27/2019 12:42	Temperature	21.5	C
MR-AP-MW-18H	8/27/2019 12:42	Turbidity	0.29	NTU
MR-AP-MW-18H	8/27/2019 12:47	Conductivity	1486.33	uS/cm
MR-AP-MW-18H	8/27/2019 12:47	DO	0.88	mg/L
MR-AP-MW-18H	8/27/2019 12:47	Depth to Water Detail	168.49	ft
MR-AP-MW-18H	8/27/2019 12:47	Oxidation Reduction Potention	-68.71	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-18H	8/27/2019 12:47	pH	7.27	pH
MR-AP-MW-18H	8/27/2019 12:47	Temperature	22	C
MR-AP-MW-18H	8/27/2019 12:47	Turbidity	0.32	NTU
MR-AP-MW-18H	8/27/2019 12:52	Conductivity	1487.18	uS/cm
MR-AP-MW-18H	8/27/2019 12:52	DO	0.87	mg/L
MR-AP-MW-18H	8/27/2019 12:52	Depth to Water Detail	168.64	ft
MR-AP-MW-18H	8/27/2019 12:52	Oxidation Reduction Potention	-69.18	mv
MR-AP-MW-18H	8/27/2019 12:52	pH	7.29	pH
MR-AP-MW-18H	8/27/2019 12:52	Temperature	21.79	C
MR-AP-MW-18H	8/27/2019 12:52	Turbidity	0.3	NTU
MR-AP-MW-18H	8/27/2019 12:57	Conductivity	1487.32	uS/cm
MR-AP-MW-18H	8/27/2019 12:57	DO	0.87	mg/L
MR-AP-MW-18H	8/27/2019 12:57	Depth to Water Detail	168.82	ft
MR-AP-MW-18H	8/27/2019 12:57	Oxidation Reduction Potention	-67.78	mv
MR-AP-MW-18H	8/27/2019 12:57	pH	7.28	pH
MR-AP-MW-18H	8/27/2019 12:57	Temperature	21.33	C
MR-AP-MW-18H	8/27/2019 12:57	Turbidity	0.27	NTU
MR-AP-MW-18H	8/27/2019 13:02	Conductivity	1495.26	uS/cm
MR-AP-MW-18H	8/27/2019 13:02	DO	0.91	mg/L
MR-AP-MW-18H	8/27/2019 13:02	Depth to Water Detail	168.91	ft
MR-AP-MW-18H	8/27/2019 13:02	Oxidation Reduction Potention	-64.14	mv
MR-AP-MW-18H	8/27/2019 13:02	pH	7.28	pH
MR-AP-MW-18H	8/27/2019 13:02	Temperature	22.66	C
MR-AP-MW-18H	8/27/2019 13:02	Turbidity	0.32	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20H	9/3/2019 12:04	Conductivity	1630.4	uS/cm
MR-AP-MW-20H	9/3/2019 12:04	DO	0.67	mg/L
MR-AP-MW-20H	9/3/2019 12:04	Depth to Water Detail	124.49	ft
MR-AP-MW-20H	9/3/2019 12:04	Oxidation Reduction Potention	-124.22	mv
MR-AP-MW-20H	9/3/2019 12:04	pH	7.45	pH
MR-AP-MW-20H	9/3/2019 12:04	Temperature	19.44	C
MR-AP-MW-20H	9/3/2019 12:04	Turbidity	6.52	NTU
MR-AP-MW-20H	9/3/2019 12:09	Conductivity	1628.2	uS/cm
MR-AP-MW-20H	9/3/2019 12:09	DO	0.54	mg/L
MR-AP-MW-20H	9/3/2019 12:09	Depth to Water Detail	124.52	ft
MR-AP-MW-20H	9/3/2019 12:09	Oxidation Reduction Potention	-127.26	mv
MR-AP-MW-20H	9/3/2019 12:09	pH	7.47	pH
MR-AP-MW-20H	9/3/2019 12:09	Temperature	19.38	C
MR-AP-MW-20H	9/3/2019 12:09	Turbidity	15.7	NTU
MR-AP-MW-20H	9/3/2019 12:14	Conductivity	1611.96	uS/cm
MR-AP-MW-20H	9/3/2019 12:14	DO	0.59	mg/L
MR-AP-MW-20H	9/3/2019 12:14	Depth to Water Detail	124.52	ft
MR-AP-MW-20H	9/3/2019 12:14	Oxidation Reduction Potention	-131.21	mv
MR-AP-MW-20H	9/3/2019 12:14	pH	7.48	pH
MR-AP-MW-20H	9/3/2019 12:14	Temperature	19.2	C
MR-AP-MW-20H	9/3/2019 12:14	Turbidity	14.2	NTU
MR-AP-MW-20H	9/3/2019 12:19	Conductivity	1601.54	uS/cm
MR-AP-MW-20H	9/3/2019 12:19	DO	0.64	mg/L
MR-AP-MW-20H	9/3/2019 12:19	Depth to Water Detail	124.52	ft
MR-AP-MW-20H	9/3/2019 12:19	Oxidation Reduction Potention	-132.1	mv
MR-AP-MW-20H	9/3/2019 12:19	pH	7.47	pH
MR-AP-MW-20H	9/3/2019 12:19	Temperature	19.41	C
MR-AP-MW-20H	9/3/2019 12:19	Turbidity	10.11	NTU
MR-AP-MW-20H	9/3/2019 12:24	Conductivity	1593.79	uS/cm
MR-AP-MW-20H	9/3/2019 12:24	DO	0.66	mg/L
MR-AP-MW-20H	9/3/2019 12:24	Depth to Water Detail	124.52	ft
MR-AP-MW-20H	9/3/2019 12:24	Oxidation Reduction Potention	-133.58	mv
MR-AP-MW-20H	9/3/2019 12:24	pH	7.49	pH
MR-AP-MW-20H	9/3/2019 12:24	Temperature	19.45	C
MR-AP-MW-20H	9/3/2019 12:24	Turbidity	7.11	NTU
MR-AP-MW-20H	9/3/2019 12:29	Conductivity	1586.13	uS/cm
MR-AP-MW-20H	9/3/2019 12:29	DO	0.71	mg/L
MR-AP-MW-20H	9/3/2019 12:29	Depth to Water Detail	124.52	ft
MR-AP-MW-20H	9/3/2019 12:29	Oxidation Reduction Potention	-135.03	mv
MR-AP-MW-20H	9/3/2019 12:29	pH	7.49	pH
MR-AP-MW-20H	9/3/2019 12:29	Temperature	19.19	C
MR-AP-MW-20H	9/3/2019 12:29	Turbidity	5.6	NTU
MR-AP-MW-20H	9/3/2019 12:34	Conductivity	1583.41	uS/cm
MR-AP-MW-20H	9/3/2019 12:34	DO	0.71	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20H	9/3/2019 12:34	Depth to Water Detail	124.52	ft
MR-AP-MW-20H	9/3/2019 12:34	Oxidation Reduction Potention	-134.23	mv
MR-AP-MW-20H	9/3/2019 12:34	pH	7.49	pH
MR-AP-MW-20H	9/3/2019 12:34	Temperature	19.54	C
MR-AP-MW-20H	9/3/2019 12:34	Turbidity	4.87	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20HS	9/3/2019 10:55	Conductivity	819.09	uS/cm
MR-AP-MW-20HS	9/3/2019 10:55	DO	0.18	mg/L
MR-AP-MW-20HS	9/3/2019 10:55	Depth to Water Detail	43.76	ft
MR-AP-MW-20HS	9/3/2019 10:55	Oxidation Reduction Potention	16.5	mv
MR-AP-MW-20HS	9/3/2019 10:55	pH	6.13	pH
MR-AP-MW-20HS	9/3/2019 10:55	Temperature	18	C
MR-AP-MW-20HS	9/3/2019 10:55	Turbidity	0.88	NTU
MR-AP-MW-20HS	9/3/2019 11:00	Conductivity	823.12	uS/cm
MR-AP-MW-20HS	9/3/2019 11:00	DO	0.15	mg/L
MR-AP-MW-20HS	9/3/2019 11:00	Depth to Water Detail	44.86	ft
MR-AP-MW-20HS	9/3/2019 11:00	Oxidation Reduction Potention	2.16	mv
MR-AP-MW-20HS	9/3/2019 11:00	pH	6.2	pH
MR-AP-MW-20HS	9/3/2019 11:00	Temperature	17.85	C
MR-AP-MW-20HS	9/3/2019 11:00	Turbidity	0.8	NTU
MR-AP-MW-20HS	9/3/2019 11:05	Conductivity	855.66	uS/cm
MR-AP-MW-20HS	9/3/2019 11:05	DO	0.15	mg/L
MR-AP-MW-20HS	9/3/2019 11:05	Depth to Water Detail	45.38	ft
MR-AP-MW-20HS	9/3/2019 11:05	Oxidation Reduction Potention	-6.21	mv
MR-AP-MW-20HS	9/3/2019 11:05	pH	6.25	pH
MR-AP-MW-20HS	9/3/2019 11:05	Temperature	17.79	C
MR-AP-MW-20HS	9/3/2019 11:05	Turbidity	0.69	NTU
MR-AP-MW-20HS	9/3/2019 11:10	Conductivity	1041.17	uS/cm
MR-AP-MW-20HS	9/3/2019 11:10	DO	0.15	mg/L
MR-AP-MW-20HS	9/3/2019 11:10	Depth to Water Detail	45.43	ft
MR-AP-MW-20HS	9/3/2019 11:10	Oxidation Reduction Potention	0.09	mv
MR-AP-MW-20HS	9/3/2019 11:10	pH	6.23	pH
MR-AP-MW-20HS	9/3/2019 11:10	Temperature	17.8	C
MR-AP-MW-20HS	9/3/2019 11:10	Turbidity	4.3	NTU
MR-AP-MW-20HS	9/3/2019 11:15	Conductivity	1085.06	uS/cm
MR-AP-MW-20HS	9/3/2019 11:15	DO	0.14	mg/L
MR-AP-MW-20HS	9/3/2019 11:15	Depth to Water Detail	45.51	ft
MR-AP-MW-20HS	9/3/2019 11:15	Oxidation Reduction Potention	-0.02	mv
MR-AP-MW-20HS	9/3/2019 11:15	pH	6.26	pH
MR-AP-MW-20HS	9/3/2019 11:15	Temperature	17.78	C
MR-AP-MW-20HS	9/3/2019 11:15	Turbidity	3.24	NTU
MR-AP-MW-20HS	9/3/2019 11:20	Conductivity	1105.72	uS/cm
MR-AP-MW-20HS	9/3/2019 11:20	DO	0.15	mg/L
MR-AP-MW-20HS	9/3/2019 11:20	Depth to Water Detail	45.51	ft
MR-AP-MW-20HS	9/3/2019 11:20	Oxidation Reduction Potention	0.55	mv
MR-AP-MW-20HS	9/3/2019 11:20	pH	6.24	pH
MR-AP-MW-20HS	9/3/2019 11:20	Temperature	17.76	C
MR-AP-MW-20HS	9/3/2019 11:20	Turbidity	2.42	NTU
MR-AP-MW-20HS	9/3/2019 11:25	Conductivity	1102.11	uS/cm
MR-AP-MW-20HS	9/3/2019 11:25	DO	0.15	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
MR-AP-MW-20HS	9/3/2019 11:25	Depth to Water Detail	45.51	ft
MR-AP-MW-20HS	9/3/2019 11:25	Oxidation Reduction Potention	-4.98	mv
MR-AP-MW-20HS	9/3/2019 11:25	pH	6.34	pH
MR-AP-MW-20HS	9/3/2019 11:25	Temperature	17.75	C
MR-AP-MW-20HS	9/3/2019 11:25	Turbidity	1.6	NTU

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-8	9/24/2019 17:08	Conductivity	110.29	uS/cm
GS-AP-MW-8	9/24/2019 17:08	DO	2.53	mg/L
GS-AP-MW-8	9/24/2019 17:08	Depth to Water Detail	47.72	ft
GS-AP-MW-8	9/24/2019 17:08	Oxidation Reduction Potention	22.12	mv
GS-AP-MW-8	9/24/2019 17:08	pH	5.62	pH
GS-AP-MW-8	9/24/2019 17:08	Temperature	20.21	C
GS-AP-MW-8	9/24/2019 17:08	Turbidity	20.3	NTU
GS-AP-MW-8	9/24/2019 17:13	Conductivity	109.01	uS/cm
GS-AP-MW-8	9/24/2019 17:13	DO	2.57	mg/L
GS-AP-MW-8	9/24/2019 17:13	Depth to Water Detail	48.08	ft
GS-AP-MW-8	9/24/2019 17:13	Oxidation Reduction Potention	50.76	mv
GS-AP-MW-8	9/24/2019 17:13	pH	5.36	pH
GS-AP-MW-8	9/24/2019 17:13	Temperature	19.92	C
GS-AP-MW-8	9/24/2019 17:13	Turbidity	27.3	NTU
GS-AP-MW-8	9/24/2019 17:18	Conductivity	109.21	uS/cm
GS-AP-MW-8	9/24/2019 17:18	DO	2.51	mg/L
GS-AP-MW-8	9/24/2019 17:18	Depth to Water Detail	48.33	ft
GS-AP-MW-8	9/24/2019 17:18	Oxidation Reduction Potention	69.13	mv
GS-AP-MW-8	9/24/2019 17:18	pH	5.21	pH
GS-AP-MW-8	9/24/2019 17:18	Temperature	20.04	C
GS-AP-MW-8	9/24/2019 17:18	Turbidity	18.6	NTU
GS-AP-MW-8	9/24/2019 17:23	Conductivity	107.61	uS/cm
GS-AP-MW-8	9/24/2019 17:23	DO	2.47	mg/L
GS-AP-MW-8	9/24/2019 17:23	Depth to Water Detail	48.51	ft
GS-AP-MW-8	9/24/2019 17:23	Oxidation Reduction Potention	77.97	mv
GS-AP-MW-8	9/24/2019 17:23	pH	5.15	pH
GS-AP-MW-8	9/24/2019 17:23	Temperature	19.84	C
GS-AP-MW-8	9/24/2019 17:23	Turbidity	12.2	NTU
GS-AP-MW-8	9/24/2019 17:28	Conductivity	106.82	uS/cm
GS-AP-MW-8	9/24/2019 17:28	DO	2.41	mg/L
GS-AP-MW-8	9/24/2019 17:28	Depth to Water Detail	48.7	ft
GS-AP-MW-8	9/24/2019 17:28	Oxidation Reduction Potention	83.08	mv
GS-AP-MW-8	9/24/2019 17:28	pH	5.14	pH
GS-AP-MW-8	9/24/2019 17:28	Temperature	19.84	C
GS-AP-MW-8	9/24/2019 17:28	Turbidity	10.21	NTU
GS-AP-MW-8	9/24/2019 17:33	Conductivity	107.87	uS/cm
GS-AP-MW-8	9/24/2019 17:33	DO	2.27	mg/L
GS-AP-MW-8	9/24/2019 17:33	Depth to Water Detail	48.91	ft
GS-AP-MW-8	9/24/2019 17:33	Oxidation Reduction Potention	85.97	mv
GS-AP-MW-8	9/24/2019 17:33	pH	5.15	pH
GS-AP-MW-8	9/24/2019 17:33	Temperature	20.03	C
GS-AP-MW-8	9/24/2019 17:33	Turbidity	8.73	NTU
GS-AP-MW-8	9/24/2019 17:38	Conductivity	111.03	uS/cm
GS-AP-MW-8	9/24/2019 17:38	DO	2.01	mg/L

**Alabama Power Company
Plant Miller Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-8	9/24/2019 17:38	Depth to Water Detail	49.12	ft
GS-AP-MW-8	9/24/2019 17:38	Oxidation Reduction Potention	87.39	mv
GS-AP-MW-8	9/24/2019 17:38	pH	5.19	pH
GS-AP-MW-8	9/24/2019 17:38	Temperature	19.89	C
GS-AP-MW-8	9/24/2019 17:38	Turbidity	4.57	NTU
GS-AP-MW-8	9/24/2019 17:43	Conductivity	118.51	uS/cm
GS-AP-MW-8	9/24/2019 17:43	DO	1.69	mg/L
GS-AP-MW-8	9/24/2019 17:43	Depth to Water Detail	49.25	ft
GS-AP-MW-8	9/24/2019 17:43	Oxidation Reduction Potention	87.4	mv
GS-AP-MW-8	9/24/2019 17:43	pH	5.22	pH
GS-AP-MW-8	9/24/2019 17:43	Temperature	20.05	C
GS-AP-MW-8	9/24/2019 17:43	Turbidity	2.89	NTU
GS-AP-MW-8	9/24/2019 17:48	Conductivity	122.5	uS/cm
GS-AP-MW-8	9/24/2019 17:48	DO	1.59	mg/L
GS-AP-MW-8	9/24/2019 17:48	Depth to Water Detail	49.4	ft
GS-AP-MW-8	9/24/2019 17:48	Oxidation Reduction Potention	86.59	mv
GS-AP-MW-8	9/24/2019 17:48	pH	5.25	pH
GS-AP-MW-8	9/24/2019 17:48	Temperature	19.88	C
GS-AP-MW-8	9/24/2019 17:48	Turbidity	2.97	NTU
GS-AP-MW-8	9/24/2019 17:53	Conductivity	123.84	uS/cm
GS-AP-MW-8	9/24/2019 17:53	DO	1.57	mg/L
GS-AP-MW-8	9/24/2019 17:53	Depth to Water Detail	49.54	ft
GS-AP-MW-8	9/24/2019 17:53	Oxidation Reduction Potention	86.37	mv
GS-AP-MW-8	9/24/2019 17:53	pH	5.26	pH
GS-AP-MW-8	9/24/2019 17:53	Temperature	19.65	C
GS-AP-MW-8	9/24/2019 17:53	Turbidity	2.91	NTU
GS-AP-MW-8	9/24/2019 17:58	Conductivity	125.57	uS/cm
GS-AP-MW-8	9/24/2019 17:58	DO	1.54	mg/L
GS-AP-MW-8	9/24/2019 17:58	Depth to Water Detail	49.69	ft
GS-AP-MW-8	9/24/2019 17:58	Oxidation Reduction Potention	86.36	mv
GS-AP-MW-8	9/24/2019 17:58	pH	5.27	pH
GS-AP-MW-8	9/24/2019 17:58	Temperature	19.6	C
GS-AP-MW-8	9/24/2019 17:58	Turbidity	2.89	NTU

Gorgas Ash Pond

1st
Delineation
Monitoring Event



Gorgas Ash Pond

Delineation Event 1

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

MW-12V had 8 field pH readings that were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Turbidity requirements could not be met for well MW-28H and samples were collected with turbidity readings greater than 10 NTU. A second dissolved set of samples were collected for analysis. All other sample criteria were met before samples were collected.

Field quality control procedures were performed as follows:

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

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

Analytical Report



Sample Group : WMWGORAP_1205
Project/Site : Gorgas Ash Pond
Parrish, AL 35580
For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243
Attention : Dustin Brooks & Greg Dyer
Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

Quality Control: Laura Midkiff
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lbmidkif@southernco.com, c=US
Date: 2019.04.11 12:15:04 -0500

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2019.04.11 16:15:33 -0500



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	640016	WMWGORAP_1205
AZ04743	640016	WMWGORAP_1205
AZ04744	640016	WMWGORAP_1205
AZ05265	640016	WMWGORAP_1205
AZ05266	640016	WMWGORAP_1205
AZ05267	640016	WMWGORAP_1205
AZ05268	640016	WMWGORAP_1205
AZ05269	640016	WMWGORAP_1205
AZ05270	640016	WMWGORAP_1205
AZ05271	640016	WMWGORAP_1205
AZ06914	642886	WMWGORAP_1205
AZ06915	642886	WMWGORAP_1205

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, except for the following:
 - AZ06915 Sodium MS/MSD spike level is less than 30% of the sample nominal concentration.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ04555	Iron	x101.5
AZ04743	Sodium	x10.15
AZ05268	Sodium	x10.15
AZ05269	Sodium	x10.15
AZ05270	Sodium	x10.15
AZ06914	Sodium	x10.15
AZ06915	Sodium	x10.15
AZ06915MS	Sodium	x10.15
AZ06915MSD	Sodium	x10.15

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



Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	640296	WMWGORAP_1205
AZ04743	640296	WMWGORAP_1205
AZ04744	640296	WMWGORAP_1205
AZ05265	640296	WMWGORAP_1205
AZ05266	640296	WMWGORAP_1205
AZ05267	640296	WMWGORAP_1205
AZ05268	640296	WMWGORAP_1205
AZ05269	640296	WMWGORAP_1205
AZ05270	640296	WMWGORAP_1205
AZ05271	640296	WMWGORAP_1205
AZ06914	642789	WMWGORAP_1205
AZ06915	642789	WMWGORAP_1205

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

General Quality Control Procedures:

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



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

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following sample was diluted due to the analyzed sample concentration being greater than high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ04555	Iron	x101.5

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



Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	642135	WMWGORAP_1205
AZ04743	642135	WMWGORAP_1205
AZ04744	642135	WMWGORAP_1205
AZ05265	642135	WMWGORAP_1205
AZ05266	642135	WMWGORAP_1205
AZ05267	642135	WMWGORAP_1205
AZ05268	642135	WMWGORAP_1205
AZ05269	642135	WMWGORAP_1205
AZ05270	642135	WMWGORAP_1205
AZ05271	642135	WMWGORAP_1205
AZ06914	642136	WMWGORAP_1205
AZ06915	642136	WMWGORAP_1205

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 x5.075 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	641996	WMWGORAP_1205
AZ04743	641996	WMWGORAP_1205
AZ04744	641996	WMWGORAP_1205
AZ05265	641996	WMWGORAP_1205
AZ05266	641996	WMWGORAP_1205
AZ05267	641996	WMWGORAP_1205
AZ05268	641996	WMWGORAP_1205
AZ05269	641996	WMWGORAP_1205
AZ05270	641996	WMWGORAP_1205
AZ05271	641996	WMWGORAP_1205
AZ06914	641997	WMWGORAP_1205
AZ06915	641997	WMWGORAP_1205

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

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.



Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
-
7. All samples were analyzed at a x5.075 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Mercury

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	641301	WMWGORAP_1205
AZ04743	641301	WMWGORAP_1205
AZ04744	641301	WMWGORAP_1205
AZ05265	641301	WMWGORAP_1205
AZ05266	641301	WMWGORAP_1205
AZ05267	641301	WMWGORAP_1205
AZ05268	641301	WMWGORAP_1205
AZ05269	641301	WMWGORAP_1205
AZ05270	641301	WMWGORAP_1205
AZ05271	641301	WMWGORAP_1205
AZ06914	642097	WMWGORAP_1205
AZ06915	642097	WMWGORAP_1205

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

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	640121	WMWGORAP_1205
AZ04743	640121	WMWGORAP_1205
AZ04744	640121	WMWGORAP_1205
AZ05265	641066	WMWGORAP_1205
AZ05266	641066	WMWGORAP_1205
AZ05267	641066	WMWGORAP_1205
AZ05268	641066	WMWGORAP_1205
AZ05269	641066	WMWGORAP_1205
AZ05270	641066	WMWGORAP_1205
AZ05271	641066	WMWGORAP_1205
AZ06914	641804	WMWGORAP_1205
AZ06915	641804	WMWGORAP_1205

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - AZ05265
 - AZ05271



Alkalinity

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	640362 & 640363	WMWGORAP_1205
AZ04743	640362 & 640363	WMWGORAP_1205
AZ04744	640362 & 640363	WMWGORAP_1205
AZ05266	640362 & 640363	WMWGORAP_1205
AZ05267	640362 & 640363	WMWGORAP_1205
AZ05268	640362 & 640363	WMWGORAP_1205
AZ05269	640362 & 640363	WMWGORAP_1205
AZ05270	640362 & 640363	WMWGORAP_1205
AZ06914	642294 & 642295	WMWGORAP_1205
AZ06915	642294 & 642295	WMWGORAP_1205

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

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



Anions

Gorgas Ash Pond

WMWGORAP_1205

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>
AZ04555	640230, 639966, & 640367	WMWGORAP_1205
AZ04743	640230, 639966, & 640367	WMWGORAP_1205
AZ04744	640230, 639966, & 640367	WMWGORAP_1205
AZ05265	640238, 640130, & 640369	WMWGORAP_1205
AZ05266	640238, 640130, & 640369	WMWGORAP_1205
AZ05267	640238, 640130, & 640369	WMWGORAP_1205
AZ05268	640238, 640130, & 640369	WMWGORAP_1205
AZ05269	640238, 640130, & 640369	WMWGORAP_1205
AZ05270	640238, 640130, & 640369	WMWGORAP_1205
AZ05271	640238, 640130, & 640369	WMWGORAP_1205
AZ06914	643066, 642208, & 643092	WMWGORAP_1205
AZ06915	643066, 642208, & 643092	WMWGORAP_1205

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below 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.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.



Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ04555	Sulfate	x20
AZ05268	Sulfate	x2

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

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 21-Feb-19

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: AZ04555

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.0306	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.0227	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	J	0.0498	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		64.5	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000809	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/5/2019	EPA 200.7		101.5	1.015	5.075	K	48.5	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		101.5	1.015	5.075		49.7	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0310	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		32.9	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	1.58	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		1.69	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	2.28	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		17.4	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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 conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 21-Feb-19

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: AZ04555

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B	1			4.00	6.50	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B	1			0.1	51.5	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				51.5	mg/L
* Solids, Dissolved	CRB	3/2/2019	SM 2540C	1			25	560	mg/L
Filter Completion Date	CRB	2/26/2019	SM 2540C	1				02/26/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E	1		0.50	1	2.58	mg/L
* Fluoride	JCC	2/28/2019	SM4500F C	1		0.05	0.1	0.188	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E	20		10.00	20	352	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 21-Feb-19

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: AZ04555

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Manganese, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Manganese, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	70 to 130	1.28	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 21-Feb-19

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: AZ04555

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05270	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ04744	Chloride	mg/L	-0.0352	0.50	10.0	14.3	3.72	10.0	9 to 11	105	80 to 120	1.34	20
AZ04744	Fluoride	mg/L	-0.00397	0.05	2.50	2.61	0.220	2.43	2.25 to 2.75	96.2	80 to 120	7.06	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ04555	Solids, Dissolved	mg/L	0.0000	25			568	53.0	40 to 60			0.709	5
AZ04744	Sulfate	mg/L	-0.256	0.50	20.0	20.2	0.501	19.9	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, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: AZ04743

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00110	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.191	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	J	0.0337	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		30.6	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00115	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	J	0.00577	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00189	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	J	0.0449	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05		1.25	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0671	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		11.1	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	0.0976	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.109	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	2.01	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		10.15	1.015	5.075		106	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: AZ04743

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B		1		4.00	8.03	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B		1		0.1	299	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D		1			2.98	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D		1			296	mg/L
* Solids, Dissolved	CRB	3/2/2019	SM 2540C		1		25	346	mg/L
Filter Completion Date	CRB	2/26/2019	SM 2540C		1			02/26/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E		1	0.50	1	3.56	mg/L
* Fluoride	JCC	2/28/2019	SM4500F C		1	0.05	0.1	0.239	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E		1	0.50	1	15.2	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: AZ04743

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20
AZ05271	Manganese, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Manganese, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	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, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 20-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: AZ04743

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05270	pH for Alkalinity	SU					7.01		6.95 to 7.05				
AZ04744	Fluoride	mg/L	-0.00397	0.05	2.50	2.61	0.220	2.43	2.25 to 2.75	96.2	80 to 120	7.06	20
AZ04744	Chloride	mg/L	-0.0352	0.50	10.0	14.3	3.72	10.0	9 to 11	105	80 to 120	1.34	20
AZ04744	Sulfate	mg/L	-0.256	0.50	20.0	20.2	0.501	19.9	18 to 22	101	80 to 120	0.00	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ04555	Solids, Dissolved	mg/L	0.0000	25			568	53.0	40 to 60			0.709	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: WMWGORAP
 Sample Date: 21-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: AZ04744

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		1.35	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	J	0.0303	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		52.3	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000841	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	J	0.00253	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	K	1.07	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05		1.68	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0468	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		13.4	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	0.0847	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.0928	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5		5.63	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		17.9	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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

Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 21-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: AZ04744

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B	1			4.00	7.82	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B	1			0.1	169	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				1.04	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				168	mg/L
* Solids, Dissolved	CRB	3/2/2019	SM 2540C	1			25	237	mg/L
Filter Completion Date	CRB	2/26/2019	SM 2540C	1				02/26/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E	1		0.50	1	3.77	mg/L
* Fluoride	JCC	2/28/2019	SM4500F C	1		0.05	0.1	0.205	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E	1		0.50	1	U Not Detected	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 21-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: AZ04744

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15		101	70 to 130 1.93		20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115		94.5	70 to 130 2.03		20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115		93.7	70 to 130 1.84		20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115		102	70 to 130 2.01		20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115		102	70 to 130 0.463		20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23		101	70 to 130 2.52		20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23		102	70 to 130 1.17		20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115		105	70 to 130 2.21		20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115		103	70 to 130 2.78		20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115		108	70 to 130 2.32		20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046		100	70 to 130 0.632		20
AZ05271	Mangenes, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115		98.2	70 to 130 4.37		20
AZ05271	Mangenes, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115		103	70 to 130 3.43		20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115		105	70 to 130 2.98		20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115		98.4	70 to 130 1.28		20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115		103	70 to 130 1.43		20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5		104	70 to 130 0.398		20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75		101	70 to 130 1.87		20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115		92.2	70 to 130 4.01		20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75		104	70 to 130 2.44		20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23		100	70 to 130 0.814		20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75		105	70 to 130 2.10		20

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Issued By: State of Florida, Department of Health

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 21-Feb-19
 Customer ID:
 Delivery Date: 22-Feb-19

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: AZ04744

Sample	Analysis	Units	MB			Sample		LCS	Rec		Prec		
			MB	Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	
AZ04744	Chloride	mg/L	-0.0352	0.50	10.0	14.3	3.72	10.0	9 to 11	105	80 to 120	1.34	20
AZ04744	Sulfate	mg/L	-0.256	0.50	20.0	20.2	0.501	19.9	18 to 22	101	80 to 120	0.00	20
AZ04555	Solids, Dissolved	mg/L	0.0000	25			568	53.0	40 to 60			0.709	5
AZ05270	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ04744	Fluoride	mg/L	-0.00397	0.05	2.50	2.61	0.220	2.43	2.25 to 2.75	96.2	80 to 120	7.06	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAPFB
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ05265

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J 0.000868	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	U Not Detected	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	U Not Detected	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAPFB
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ05265

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C		1			03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500Cl E		1	0.50	1	U Not Detected	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C		1	0.05	0.1	U Not Detected	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E		1	0.50	1	U Not Detected	mg/L

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Expiration: June 30, 2019

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ05265

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Mangnese, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Mangnese, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	70 to 130	1.28	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ05265

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	80 to 120	0.00	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: AZ05266

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.887	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	J	0.0719	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		46.0	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000918	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	K	1.97	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05		2.79	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0282	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		15.1	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	0.125	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.133	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	1.69	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		31.9	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: AZ05266

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B	1			4.00	7.26	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B	1			0.1	225	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				0.38	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				225	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			25	249	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C	1				03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E	1		0.50	1	3.28	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C	1		0.05	0.1	0.190	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E	1		0.50	1	10.9	mg/L

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Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: AZ05266

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20
AZ05271	Manganese, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Manganese, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	70 to 130	1.28	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: AZ05266

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05270	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	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, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: AZ05267

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.881	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	J	0.0725	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		45.9	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000807	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	K	1.98	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05		2.79	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0282	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		15.1	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	0.122	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.130	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	1.65	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		32.1	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: AZ05267

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B	1			4.00	7.37	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B	1			0.1	227	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				0.50	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				226	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			25	252	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C	1				03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E	1		0.50	1	3.33	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C	1		0.05	0.1	0.194	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E	1		0.50	1	11.1	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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 Calera, AL 35040
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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: AZ05267

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20
AZ05271	Manganese, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Manganese, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	70 to 130	1.28	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: AZ05267

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05270	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	80 to 120	0.00	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-18V

Laboratory ID Number: AZ05268

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00368	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.243	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1		0.109	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		13.6	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000980	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	J	0.00696	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	K	0.288	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05		0.834	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0423	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		4.21	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	0.110	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.113	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	2.37	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		10.15	1.015	5.075		93.5	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-18V

Laboratory ID Number: AZ05268

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B		1		4.00	8.02	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B		1		0.1	166	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D		1			1.62	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D		1			164	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		25	238	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C		1			03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E		1	0.50	1	7.13	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C		1	0.05	0.1	0.165	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E		2	1.00	2	39.9	mg/L

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Batch QC Summary



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Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-18V

Laboratory ID Number: AZ05268

Sample	Analysis	Units	MB	MB			LCS			Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20
AZ05271	Mangnese, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Mangnese, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	70 to 130	1.28	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 26-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-18V

Laboratory ID Number: AZ05268

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05270	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	80 to 120	0.00	20

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Expiration: June 30, 2019

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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

Customer Account: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: AZ05269

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.517	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	J	0.0359	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		12.1	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000932	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	K	0.137	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05		0.697	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02		0.0700	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5		4.32	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K	0.0134	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.0206	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	2.39	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		10.15	1.015	5.075		163	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: AZ05269

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B	1			4.00	8.28	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B	1			0.1	330	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				5.81	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				324	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			25	414	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C	1				03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E	1		0.50	1	3.09	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C	1		0.05	0.1	0.218	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E	1		0.50	1	20.7	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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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: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: AZ05269

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15		101	70 to 130 1.93		20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115		94.5	70 to 130 2.03		20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115		93.7	70 to 130 1.84		20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115		102	70 to 130 2.01		20
AZ05271	Mangenes, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115		98.2	70 to 130 4.37		20
AZ05271	Mangenes, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115		103	70 to 130 3.43		20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115		105	70 to 130 2.98		20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115		98.4	70 to 130 1.28		20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115		103	70 to 130 1.43		20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5		104	70 to 130 0.398		20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75		101	70 to 130 1.87		20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115		102	70 to 130 0.463		20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23		101	70 to 130 2.52		20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23		102	70 to 130 1.17		20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115		105	70 to 130 2.21		20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115		103	70 to 130 2.78		20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115		108	70 to 130 2.32		20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046		100	70 to 130 0.632		20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115		92.2	70 to 130 4.01		20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75		104	70 to 130 2.44		20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23		100	70 to 130 0.814		20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75		105	70 to 130 2.10		20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: AZ05269

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05270	pH for Alkalinity	SU					7.01		6.95 to 7.05				
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	80 to 120	0.00	20

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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: AZ05270

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	0.622	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	29.1	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J 0.000940	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	J 0.00286	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	K 0.637	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05	1.45	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02	0.0966	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	11.5	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	K 0.0423	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	0.0492	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	3.90	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		10.15	1.015	5.075	81.3	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Alabama Power General Test Laboratory
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Certificate Of Analysis



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: AZ05270

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/4/2019	SM 4500H+ B	1			4.00	7.50	SU
Alkalinity, Total as CaCO3	EMG	3/4/2019	SM 2320 B	1			0.1	251	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				0.74	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/4/2019	SM 4500CO2 D	1				250	mg/L
* Solids, Dissolved	CRB	3/13/2019	SM 2540C	1			25	266	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C	1				03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500CI E	1		0.50	1	2.87	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C	1		0.05	0.1	0.140	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E	1		0.50	1	4.89	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: AZ05270

Sample	Analysis	Units	MB	MB			LCS			Rec		Prec	
				Limit	Spike	MS	MSD	LCS	Limit	Rec	Limit	Prec	Limit
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Mangenes, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Mangenes, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	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, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: AZ05270

Sample	Analysis	Units	MB	Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05270	pH for Alkalinity	SU					7.01		6.95 to 7.05				
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05270	Alkalinity, Total as CaCO3	mg/L					252	49.8	45.0 to 55.0			0.151	10
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	80 to 120	0.00	20

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CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPEB
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ05271

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000829	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	3/4/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/15/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	U	Not Detected	mg/L
* Sodium, Total	GAS	3/5/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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: WMWGORAPEB
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ05271

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
* Solids, Dissolved	CRB	3/13/2019	SM 2540C		1		25	U Not Detected	mg/L
Filter Completion Date	CRB	3/5/2019	SM 2540C		1			03/05/2019	Date
* Chloride	JCC	3/1/2019	SM4500Cl E		1	0.50	1	U Not Detected	mg/L
* Fluoride	JCC	3/1/2019	SM4500F C		1	0.05	0.1	U Not Detected	mg/L
* Sulfate	JCC	3/5/2019	SM4500SO4 E		1	0.50	1	U Not Detected	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPEB
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ05271

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AZ05271	Boron, Total	mg/L	-0.00444	0.044	1.00	1.01	1.03	1.02	0.85 to 1.15	101	70 to 130	1.93	20
AZ05271	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0945	0.0926	0.100	0.085 to 0.115	94.5	70 to 130	2.03	20
AZ05271	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0937	0.0919	0.0951	0.085 to 0.115	93.7	70 to 130	1.84	20
AZ05271	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115	102	70 to 130	2.01	20
AZ05271	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	1.43	20
AZ05271	Potassium, Total	mg/L	-0.00441	0.473	10.0	10.4	10.4	10.5	8.5 to 11.5	104	70 to 130	0.398	20
AZ05271	Sodium, Total	mg/L	0.00435	0.22	5.00	5.06	5.16	5.21	4.25 to 5.75	101	70 to 130	1.87	20
AZ05271	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.108	0.105	0.107	0.085 to 0.115	108	70 to 130	2.32	20
AZ05271	Mercury, Total by CVAA	mg/L	-0.0000172	0.0005	0.004	0.00401	0.00399	0.00411	0.0034 to 0.0046	100	70 to 130	0.632	20
AZ05271	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.0922	0.0885	0.0943	0.085 to 0.115	92.2	70 to 130	4.01	20
AZ05271	Calcium, Total	mg/L	0.0250	0.22	5.00	5.22	5.35	5.23	4.25 to 5.75	104	70 to 130	2.44	20
AZ05271	Lithium, Total	mg/L	-0.0000636	0.022	0.20	0.200	0.202	0.200	0.17 to 0.23	100	70 to 130	0.814	20
AZ05271	Magnesium, Total	mg/L	-0.000776	0.22	5.00	5.25	5.36	5.27	4.25 to 5.75	105	70 to 130	2.10	20
AZ05271	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.102	0.103	0.085 to 0.115	102	70 to 130	0.463	20
AZ05271	Iron, Dissolved	mg/L	0.00371	0.022	0.2	0.202	0.197	0.200	0.17 to 0.23	101	70 to 130	2.52	20
AZ05271	Iron, Total	mg/L	0.00263	0.022	0.2	0.204	0.207	0.203	0.17 to 0.23	102	70 to 130	1.17	20
AZ05271	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.21	20
AZ05271	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.103	0.100	0.105	0.085 to 0.115	103	70 to 130	2.78	20
AZ05271	Mangenes, Dissolved	mg/L	0.00000258	0.0022	0.10	0.0982	0.103		0.085 to 0.115	98.2	70 to 130	4.37	20
AZ05271	Mangenes, Total	mg/L	0.00000536	0.0022	0.10	0.103	0.0992	0.101	0.085 to 0.115	103	70 to 130	3.43	20
AZ05271	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.105	0.102	0.108	0.085 to 0.115	105	70 to 130	2.98	20
AZ05271	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.0993	0.101	0.0979	0.085 to 0.115	98.4	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, 2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPEB
 Sample Date: 27-Feb-19
 Customer ID:
 Delivery Date: 28-Feb-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ05271

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ05270	Solids, Dissolved	mg/L	1.00	25			264	53.0	40 to 60			0.377	5
AZ05271	Sulfate	mg/L	-0.125	0.50	20.0	20.1	-0.170	19.8	18 to 22	100	80 to 120	0.00	20
AZ05271	Chloride	mg/L	-0.0515	0.50	10.0	10.0	0.20	10.0	9 to 11	100	80 to 120	0.00	20
AZ05271	Fluoride	mg/L	-0.0586	0.05	2.50	2.61	-0.0625	2.58	2.25 to 2.75	104	80 to 120	0.00	20

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CC:

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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: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: AZ06914

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00142	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.164	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/2/2019	EPA 200.7		2.03	0.02	0.1	J	0.0819	mg/L
* Calcium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.1	0.5		3.42	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00241	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	J	0.00555	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00208	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	4/1/2019	EPA 200.7		2.03	0.01	0.05	J	0.0145	mg/L
* Iron, Total	GAS	4/2/2019	EPA 200.7		2.03	0.01	0.05		4.02	mg/L
* Mercury, Total by CVAA	ABB	3/25/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.01	0.02		0.0625	mg/L
* Magnesium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.1	0.5		2.08	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00362	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005		0.0187	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	1.19	mg/L
* Sodium, Total	GAS	4/2/2019	EPA 200.7		10.15	1.015	5.075		174	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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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: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: AZ06914

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/26/2019	SM 4500H+ B		1		4.00	8.46	SU
Alkalinity, Total as CaCO3	EMG	3/26/2019	SM 2320 B		1		0.1	319	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/26/2019	SM 4500CO2 D		1			8.42	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/26/2019	SM 4500CO2 D		1			310	mg/L
* Solids, Dissolved	CRB	3/20/2019	SM 2540C		1		25	514	mg/L
Filter Completion Date	CES	3/18/2019	SM 2540C		1			3/18/2019	Date
* Chloride	JCC	4/1/2019	SM4500CI E		1	0.50	1	8.00	mg/L
* Fluoride	JCC	3/25/2019	SM4500F C		1	0.05	0.1	0.187	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	30.0	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: AZ06914

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	
			MB	Limit					Limit	Rec	Limit	Prec		
AZ06915	Iron, Total	mg/L	-0.000168	0.022	0.2	0.210	0.208	0.201	0.17 to 0.23		105	70 to 130 0.920		20
AZ06915	Arsenic, Total	mg/L	0.00000436	0.0022	0.10	0.0983	0.0960	0.100	0.085 to 0.115		97.2	70 to 130 2.41		20
AZ06915	Magnesium, Total	mg/L	-0.0160	0.22	5.00	5.84	5.83	5.27	4.25 to 5.75		107	70 to 130 0.216		20
AZ06915	Lead, Total	mg/L	0.00000381	0.0022	0.10	0.103	0.101	0.108	0.085 to 0.115		103	70 to 130 1.72		20
AZ06915	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115		102	70 to 130 1.92		20
AZ06915	Barium, Total	mg/L	0.00000490	0.0044	0.10	0.156	0.152	0.0943	0.085 to 0.115		92.3	70 to 130 2.91		20
AZ06915	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.107	0.105	0.0979	0.085 to 0.115		105	70 to 130 2.05		20
AZ06915	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0933	0.0918	0.0951	0.085 to 0.115		93.3	70 to 130 1.62		20
AZ06915	Cobalt, Total	mg/L	-0.00000687	0.0044	0.10	0.107	0.105	0.107	0.085 to 0.115		107	70 to 130 2.26		20
AZ06915	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.101	0.0986	0.102	0.085 to 0.115		101	70 to 130 2.47		20
AZ06915	Molybdenum, Total	mg/L	0.00000769	0.0044	0.10	0.111	0.109	0.104	0.085 to 0.115		103	70 to 130 1.14		20
AZ06915	Iron, Dissolved	mg/L	0.000334	0.022	0.2	0.205	0.204	0.202	0.17 to 0.23		103	70 to 130 0.429		20
AZ06915	Mercury, Total by CVAA	mg/L	-0.00000310	0.0005	0.004	0.00377	0.00377	0.00380	0.0034 to 0.0046		94.2	70 to 130 0.0902		20
AZ06915	Potassium, Total	mg/L	-0.00441	0.473	10.0	11.3	11.4	10.5	8.5 to 11.5		103	70 to 130 0.712		20
AZ06915	Manganese, Total	mg/L	0.00000536	0.0022	0.10	0.104	0.103	0.101	0.085 to 0.115		100	70 to 130 0.719		20
AZ06915	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.101	0.0986	0.105	0.085 to 0.115		101	70 to 130 2.11		20
AZ06915	Boron, Total	mg/L	0.000385	0.044	1.00	1.07	1.06	0.991	0.85 to 1.15		101	70 to 130 1.30		20
AZ06915	Calcium, Total	mg/L	-0.0173	0.22	5.00	6.94	6.91	5.08	4.25 to 5.75		103	70 to 130 0.398		20
AZ06915	Cadmium, Total	mg/L	0.00000000	0.00066	0.10	0.102	0.101	0.103	0.085 to 0.115		102	70 to 130 0.353		20
AZ06915	Lithium, Total	mg/L	-0.0000115	0.022	0.20	0.293	0.289	0.198	0.17 to 0.23		117	70 to 130 1.23		20
AZ06915	Manganese, Dissolved	mg/L	-0.00000267	0.0022	0.10	0.104	0.106		0.085 to 0.115		100	70 to 130 2.08		20
AZ06915	Sodium, Total	mg/L	-0.00261	0.22	5.00	182	165	5.01	4.25 to 5.75		290	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, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: AZ06914

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06915	Solids, Dissolved	mg/L	-10.0	25			370	52.0	40 to 60			0.543	5
AZ06915	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ06915	Fluoride	mg/L	0.0415	0.05	2.50	2.73	0.184	2.54	2.25 to 2.75	102	80 to 120	2.20	20
AZ06915	Alkalinity, Total as CaCO3	mg/L					314	50.0	45.0 to 55.0			0.408	10
AZ06915	Chloride	mg/L	0.0489	0.50	10.0	18.3	8.04	9.86	9 to 11	104	80 to 120	1.88	20
AZ06915	Sulfate	mg/L	-0.0435	0.50	20.0	32.3	13.0	19.9	18 to 22	97.0	80 to 120	0.772	20

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Expiration: June 30, 2019

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CC:

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

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28HDIS

Laboratory ID Number: AZ06915

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00110	mg/L
* Barium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01		0.0640	mg/L
* Beryllium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/2/2019	EPA 200.7		2.03	0.02	0.1	J	0.0644	mg/L
* Calcium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.1	0.5		1.78	mg/L
* Cadmium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00214	mg/L
* Molybdenum, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	J	0.00735	mg/L
* Lead, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	4/1/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	4/2/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	3/25/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.01	0.02		0.0584	mg/L
* Magnesium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.1	0.5	J	0.489	mg/L
* Manganese, Dissolved	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00346	mg/L
* Manganese, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.001	0.005	J	0.00349	mg/L
* Potassium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.215	2.5	J	1.02	mg/L
* Sodium, Total	GAS	4/2/2019	EPA 200.7		10.15	1.015	5.075		168	mg/L
* Selenium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/21/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L

General Characteristics

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike is invalid for Sodium due to sample concentration.
 LBM 04/10/2019

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: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28HDIS

Laboratory ID Number: AZ06915

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
pH for Alkalinity	EMG	3/26/2019	SM 4500H+ B	1			4.00	8.50	SU
Alkalinity, Total as CaCO3	EMG	3/26/2019	SM 2320 B	1			0.1	313	mg/L
Carbonate Alkalinity, as CaCO3	EMG	3/26/2019	SM 4500CO2 D	1				9.03	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	3/26/2019	SM 4500CO2 D	1				304	mg/L
* Solids, Dissolved	CRB	3/20/2019	SM 2540C	1			25	366	mg/L
Filter Completion Date	CES	3/18/2019	SM 2540C	1				3/18/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E	1		0.50	1	7.89	mg/L
* Fluoride	JCC	3/25/2019	SM4500F C	1		0.05	0.1	0.180	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E	1		0.50	1	12.9	mg/L

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike is invalid for Sodium due to sample concentration.
 LBM 04/10/2019

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

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28HDIS

Laboratory ID Number: AZ06915

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit
			MB	Limit					Limit	Rec	Limit	Prec	
AZ06915	Iron, Total	mg/L	-0.000168	0.022	0.2	0.210	0.208	0.201	0.17 to 0.23		105	70 to 130 0.920 20	
AZ06915	Beryllium, Total	mg/L	0.0000273	0.00132	0.10	0.0933	0.0918	0.0951	0.085 to 0.115		93.3	70 to 130 1.62 20	
AZ06915	Cobalt, Total	mg/L	-0.0000687	0.0044	0.10	0.107	0.105	0.107	0.085 to 0.115		107	70 to 130 2.26 20	
AZ06915	Barium, Total	mg/L	0.0000490	0.0044	0.10	0.156	0.152	0.0943	0.085 to 0.115		92.3	70 to 130 2.91 20	
AZ06915	Antimony, Total	mg/L	0.000284	0.00176	0.10	0.107	0.105	0.0979	0.085 to 0.115		105	70 to 130 2.05 20	
AZ06915	Arsenic, Total	mg/L	0.0000436	0.0022	0.10	0.0983	0.0960	0.100	0.085 to 0.115		97.2	70 to 130 2.41 20	
AZ06915	Magnesium, Total	mg/L	-0.0160	0.22	5.00	5.84	5.83	5.27	4.25 to 5.75		107	70 to 130 0.216 20	
AZ06915	Lead, Total	mg/L	0.0000381	0.0022	0.10	0.103	0.101	0.108	0.085 to 0.115		103	70 to 130 1.72 20	
AZ06915	Selenium, Total	mg/L	0.000121	0.0044	0.10	0.102	0.100	0.105	0.085 to 0.115		102	70 to 130 1.92 20	
AZ06915	Chromium, Total	mg/L	0.0000752	0.0044	0.10	0.101	0.0986	0.102	0.085 to 0.115		101	70 to 130 2.47 20	
AZ06915	Molybdenum, Total	mg/L	0.0000769	0.0044	0.10	0.111	0.109	0.104	0.085 to 0.115		103	70 to 130 1.14 20	
AZ06915	Boron, Total	mg/L	0.000385	0.044	1.00	1.07	1.06	0.991	0.85 to 1.15		101	70 to 130 1.30 20	
AZ06915	Calcium, Total	mg/L	-0.0173	0.22	5.00	6.94	6.91	5.08	4.25 to 5.75		103	70 to 130 0.398 20	
AZ06915	Cadmium, Total	mg/L	0.0000000	0.00066	0.10	0.102	0.101	0.103	0.085 to 0.115		102	70 to 130 0.353 20	
AZ06915	Lithium, Total	mg/L	-0.0000115	0.022	0.20	0.293	0.289	0.198	0.17 to 0.23		117	70 to 130 1.23 20	
AZ06915	Manganese, Dissolved	mg/L	-0.0000267	0.0022	0.10	0.104	0.106		0.085 to 0.115		100	70 to 130 2.08 20	
AZ06915	Sodium, Total	mg/L	-0.00261	0.22	5.00	182	165	5.01	4.25 to 5.75		290	70 to 130 9.93 20	
AZ06915	Iron, Dissolved	mg/L	0.000334	0.022	0.2	0.205	0.204	0.202	0.17 to 0.23		103	70 to 130 0.429 20	
AZ06915	Mercury, Total by CVAA	mg/L	-0.00000310	0.0005	0.004	0.00377	0.00377	0.00380	0.0034 to 0.0046		94.2	70 to 130 0.0902 20	
AZ06915	Potassium, Total	mg/L	-0.00441	0.473	10.0	11.3	11.4	10.5	8.5 to 11.5		103	70 to 130 0.712 20	
AZ06915	Manganese, Total	mg/L	0.00000536	0.0022	0.10	0.104	0.103	0.101	0.085 to 0.115		100	70 to 130 0.719 20	
AZ06915	Thallium, Total	mg/L	0.00000096	0.00044	0.10	0.101	0.0986	0.105	0.085 to 0.115		101	70 to 130 2.11 20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike is invalid for Sodium due to sample concentration.
 LBM 04/10/2019

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 Calera, AL 35040
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 FAX (205) 257-1654

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 13-Mar-19
 Customer ID:
 Delivery Date: 18-Mar-19

Description: Gorgas Ash Pond - MW-28HDIS

Laboratory ID Number: AZ06915

Sample	Analysis	Units MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ06915	pH for Alkalinity	SU					7.01	6.95 to 7.05				
AZ06915	Solids, Dissolved	mg/L -10.0	25			370	52.0	40 to 60			0.543	5
AZ06915	Fluoride	mg/L 0.0415	0.05	2.50	2.73	0.184	2.54	2.25 to 2.75	102	80 to 120	2.20	20
AZ06915	Alkalinity, Total as CaCO3	mg/L				314	50.0	45.0 to 55.0			0.408	10
AZ06915	Chloride	mg/L 0.0489	0.50	10.0	18.3	8.04	9.86	9 to 11	104	80 to 120	1.88	20
AZ06915	Sulfate	mg/L -0.0435	0.50	20.0	32.3	13.0	19.9	18 to 22	97.0	80 to 120	0.772	20

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 LBM 04/10/2019

CC:



Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
BA	Analyte found in reagent blank is = RL AND is > 1/10 the amount of the sample.
C	Analyte was verified by re-analysis.
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.
E	Estimated reported value exceeded calibration range.
F	Water Field Group (WFG) qualifier; see comments for more information
FA	Field results were reviewed by the Water Field Group.
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.
J	Reported value is an estimate because concentration is less than reporting limit.
K	No MB or LCS were submitted with the sample for dissolved analysis.
L	Check standard is outside of specification limit.
LA	Analyte recovery in the check standard was above specification limit. Results may be biased high.
LL	Analyte recovery in the check standard was below specification limit. Results may be biased low.
M	LOQ verification analyzed with batch was outside of specification limit.
N	Organic constituents tentatively identified. Confirmation is needed.
P	Precision is out of specification limit.
R	Matrix spike recovery or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
S	Surrogate recovery is outside of specification limit.
T	Sample temperature is outside of specification limit.
U	Compound was analyzed, but not detected.

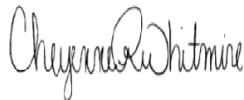
ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-167636-1
Laboratory Sample Delivery Group: Gorgas Ash Pond 1205
Client Project/Site: CCR Plant Gorgas

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:
5/6/2019 11:27:41 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC 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 Gorgas

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

Job ID: 400-167636-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-167636-1

RAD

Method(s) 9315: Ra-226 Prep Batch 160-422964: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ05272 FB-1 (400-167636-1), AZ05273 MW-24H (400-167636-2), AZ05274 MW-24H DUP (400-167636-3), AZ05275 MW-18V (400-167636-4), AZ05276 MW-29H (400-167636-5), AZ05277 MW-26H (400-167636-6), AZ05278 EB-1 (400-167636-7), (LCS 160-422964/1-A), (MB 160-422964/18-A), (400-167635-A-2-C) and (400-167635-A-2-B DU)

Method(s) 9315: Ra-226 Prep Batch 160-423239: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ04745 MW-17V (400-167636-8), AZ04746 MW-12V (400-167636-9), AZ04556 MW-23H (400-167636-10), AZ06916 MW-28H (400-167636-11), AZ06917 MW-28HDIS (400-167636-12), (LCS 160-423239/1-A), (LCSD 160-423239/2-A) and (MB 160-423239/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-422966: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ05272 FB-1 (400-167636-1), AZ05273 MW-24H (400-167636-2), AZ05274 MW-24H DUP (400-167636-3), AZ05275 MW-18V (400-167636-4), AZ05276 MW-29H (400-167636-5), AZ05277 MW-26H (400-167636-6), AZ05278 EB-1 (400-167636-7), (LCS 160-422966/1-A), (MB 160-422966/18-A), (400-167635-A-2-D) and (400-167635-A-2-E DU)

Method(s) 9320: Ra-228 Prep Batch 160-423240: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ04745 MW-17V (400-167636-8), AZ04746 MW-12V (400-167636-9), AZ04556 MW-23H (400-167636-10), AZ06916 MW-28H (400-167636-11), AZ06917 MW-28HDIS (400-167636-12), (LCS 160-423240/1-A) and (LCSD 160-423240/2-A)

Method(s) 9320: Ra-228 Prep Batch 160-423240: Ra-228 batch 423240 started counting on GFPC on 4/19/2019. The MB count associated with the batch failed to start. However, all the samples reported in this batch exhibited activity below the MDC. All other QC parameters are within limits. The laboratory does not believe this excursion adversely affects the sample data. AZ04745 MW-17V (400-167636-8), AZ04746 MW-12V (400-167636-9), AZ04556 MW-23H (400-167636-10), AZ06916 MW-28H (400-167636-11), AZ06917 MW-28HDIS (400-167636-12), (LCS 160-423240/1-A) and (LCSD 160-423240/2-A)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-422966. The following samples were reduced due to sedimentation that caused the samples to be discolored and opaque: AZ05273 MW-24H (400-167636-2), AZ05274 MW-24H DUP (400-167636-3) and AZ05276 MW-29H (400-167636-5)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-423240. The following samples were prepared at a reduced aliquot due to suspended solids: AZ04745 MW-17V (400-167636-8) and AZ06916 MW-28H (400-167636-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-423240. Insufficient sample volume was available to perform a sample duplicate for the following samples: AZ04746 MW-12V (400-167636-9), AZ04556 MW-23H (400-167636-10) and AZ06917 MW-28HDIS (400-167636-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-422964. The following samples were reduced due to sedimentation that caused the samples to be discolored and opaque: AZ05273 MW-24H (400-167636-2), AZ05274 MW-24H DUP (400-167636-3) and AZ05276 MW-29H (400-167636-5)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-423239. The following samples were prepared at a reduced aliquot due to suspended solids: AZ04745 MW-17V (400-167636-8) and AZ06916 MW-28H (400-167636-11). A laboratory control sample/ laboratory

Case Narrative

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

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

Job ID: 400-167636-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method(s) PrecSep-21: Radium 226 Prep Batch 160-423239. Insufficient sample volume was available to perform a sample duplicate for the following samples: AZ04746 MW-12V (400-167636-9), AZ04556 MW-23H (400-167636-10) and AZ06917 MW-28HDIS (400-167636-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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Method Summary

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

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

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

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-167636-1	AZ05272 FB-1	Water	02/26/19 11:20	03/21/19 16:36
400-167636-2	AZ05273 MW-24H	Water	02/26/19 12:00	03/21/19 16:36
400-167636-3	AZ05274 MW-24H DUP	Water	02/26/19 12:00	03/21/19 16:36
400-167636-4	AZ05275 MW-18V	Water	02/26/19 15:15	03/21/19 16:36
400-167636-5	AZ05276 MW-29H	Water	02/27/19 12:00	03/21/19 16:36
400-167636-6	AZ05277 MW-26H	Water	02/27/19 15:47	03/21/19 16:36
400-167636-7	AZ05278 EB-1	Water	02/27/19 15:37	03/21/19 16:36
400-167636-8	AZ04745 MW-17V	Water	02/20/19 14:24	03/21/19 16:36
400-167636-9	AZ04746 MW-12V	Water	02/21/19 13:55	03/21/19 16:36
400-167636-10	AZ04556 MW-23H	Water	02/20/19 11:15	03/21/19 16:36
400-167636-11	AZ06916 MW-28H	Water	03/13/19 14:28	03/21/19 16:36
400-167636-12	AZ06917 MW-28HDIS	Water	03/13/19 14:28	03/21/19 16:36

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05272 FB-1

Lab Sample ID: 400-167636-1

Date Collected: 02/26/19 11:20

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0274	U	0.0531	0.0531	1.00	0.0959	pCi/L	04/07/19 14:31	04/30/19 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					04/07/19 14:31	04/30/19 12:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.266	U	0.202	0.203	1.00	0.315	pCi/L	04/07/19 14:31	04/18/19 08:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					04/07/19 14:31	04/18/19 08:41	1
Y Carrier	89.0		40 - 110					04/07/19 14:31	04/18/19 08:41	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	0.294	U	0.209	0.210	5.00	0.315	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05273 MW-24H

Lab Sample ID: 400-167636-2

Date Collected: 02/26/19 12:00

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.299		0.123	0.126	1.00	0.134	pCi/L	04/07/19 14:31	04/30/19 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					04/07/19 14:31	04/30/19 12:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.601		0.319	0.324	1.00	0.479	pCi/L	04/07/19 14:31	04/18/19 08:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					04/07/19 14:31	04/18/19 08:41	1
Y Carrier	85.2		40 - 110					04/07/19 14:31	04/18/19 08:41	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	0.900		0.342	0.348	5.00	0.479	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05274 MW-24H DUP

Lab Sample ID: 400-167636-3

Date Collected: 02/26/19 12:00

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.353		0.126	0.130	1.00	0.113	pCi/L	04/07/19 14:31	04/30/19 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/07/19 14:31	04/30/19 12:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.564		0.309	0.314	1.00	0.464	pCi/L	04/07/19 14:31	04/18/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/07/19 14:31	04/18/19 08:43	1
Y Carrier	85.6		40 - 110					04/07/19 14:31	04/18/19 08:43	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	0.916		0.334	0.340	5.00	0.464	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05275 MW-18V

Lab Sample ID: 400-167636-4

Date Collected: 02/26/19 15:15

Matrix: Water

Date Received: 03/21/19 16:36

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		0.0725	0.0735	1.00	0.0866	pCi/L	04/07/19 14:31	04/30/19 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/07/19 14:31	04/30/19 12:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.198	0.199	1.00	0.331	pCi/L	04/07/19 14:31	04/18/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/07/19 14:31	04/18/19 08:43	1
Y Carrier	90.1		40 - 110					04/07/19 14:31	04/18/19 08:43	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	0.278	U	0.211	0.212	5.00	0.331	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05276 MW-29H

Lab Sample ID: 400-167636-5

Date Collected: 02/27/19 12:00

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.263		0.119	0.122	1.00	0.142	pCi/L	04/07/19 14:31	04/30/19 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					04/07/19 14:31	04/30/19 12:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.293	U	0.291	0.292	1.00	0.472	pCi/L	04/07/19 14:31	04/18/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					04/07/19 14:31	04/18/19 08:43	1
Y Carrier	85.2		40 - 110					04/07/19 14:31	04/18/19 08:43	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	0.556		0.314	0.316	5.00	0.472	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05277 MW-26H

Lab Sample ID: 400-167636-6

Date Collected: 02/27/19 15:47

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.197		0.0864	0.0882	1.00	0.0921	pCi/L	04/07/19 14:31	04/30/19 14:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/07/19 14:31	04/30/19 14:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.295	U	0.196	0.198	1.00	0.302	pCi/L	04/07/19 14:31	04/18/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/07/19 14:31	04/18/19 08:43	1
Y Carrier	90.5		40 - 110					04/07/19 14:31	04/18/19 08:43	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	0.492		0.214	0.217	5.00	0.302	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05278 EB-1

Lab Sample ID: 400-167636-7

Date Collected: 02/27/19 15:37

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00877	U	0.0551	0.0551	1.00	0.109	pCi/L	04/07/19 14:31	04/30/19 14:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/07/19 14:31	04/30/19 14:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.108	U	0.207	0.207	1.00	0.352	pCi/L	04/07/19 14:31	04/18/19 08:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/07/19 14:31	04/18/19 08:43	1
Y Carrier	86.7		40 - 110					04/07/19 14:31	04/18/19 08:43	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	0.117	U	0.214	0.214	5.00	0.352	pCi/L		05/01/19 09:26	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ04745 MW-17V

Lab Sample ID: 400-167636-8

Date Collected: 02/20/19 14:24

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.245		0.0947	0.0973	1.00	0.0846	pCi/L	04/10/19 14:08	05/02/19 19:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					04/10/19 14:08	05/02/19 19:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.153	U	0.265	0.265	1.00	0.450	pCi/L	04/10/19 14:10	04/19/19 15:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					04/10/19 14:10	04/19/19 15:18	1
Y Carrier	87.9		40 - 110					04/10/19 14:10	04/19/19 15:18	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	0.398	U	0.281	0.282	5.00	0.450	pCi/L		05/06/19 09:56	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ04746 MW-12V

Lab Sample ID: 400-167636-9

Date Collected: 02/21/19 13:55

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.158		0.0722	0.0736	1.00	0.0709	pCi/L	04/10/19 14:08	05/02/19 19:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					04/10/19 14:08	05/02/19 19:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.138	U	0.200	0.200	1.00	0.335	pCi/L	04/10/19 14:10	04/19/19 15:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					04/10/19 14:10	04/19/19 15:18	1
Y Carrier	84.5		40 - 110					04/10/19 14:10	04/19/19 15:18	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	0.296	U	0.213	0.213	5.00	0.335	pCi/L		05/06/19 09:56	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ04556 MW-23H

Lab Sample ID: 400-167636-10

Date Collected: 02/20/19 11:15

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0282	U	0.0419	0.0420	1.00	0.0722	pCi/L	04/10/19 14:08	05/02/19 19:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/10/19 14:08	05/02/19 19:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0477	U	0.249	0.249	1.00	0.437	pCi/L	04/10/19 14:10	04/19/19 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/10/19 14:10	04/19/19 15:20	1
Y Carrier	83.7		40 - 110					04/10/19 14:10	04/19/19 15:20	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	0.0759	U	0.253	0.253	5.00	0.437	pCi/L		05/06/19 09:56	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ06916 MW-28H

Lab Sample ID: 400-167636-11

Date Collected: 03/13/19 14:28

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.297		0.135	0.138	1.00	0.140	pCi/L	04/10/19 14:08	05/02/19 19:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110					04/10/19 14:08	05/02/19 19:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.527	U	0.497	0.500	1.00	0.803	pCi/L	04/10/19 14:10	04/19/19 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110					04/10/19 14:10	04/19/19 15:20	1
Y Carrier	85.2		40 - 110					04/10/19 14:10	04/19/19 15:20	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	0.824		0.515	0.519	5.00	0.803	pCi/L		05/06/19 09:56	1

Client Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ06917 MW-28HDIS

Lab Sample ID: 400-167636-12

Date Collected: 03/13/19 14:28

Matrix: Water

Date Received: 03/21/19 16:36

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0520	U	0.0478	0.0480	1.00	0.0709	pCi/L	04/10/19 14:08	05/02/19 19:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					04/10/19 14:08	05/02/19 19:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0841	U	0.218	0.218	1.00	0.375	pCi/L	04/10/19 14:10	04/19/19 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					04/10/19 14:10	04/19/19 15:20	1
Y Carrier	86.7		40 - 110					04/10/19 14:10	04/19/19 15:20	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	0.136	U	0.223	0.223	5.00	0.375	pCi/L		05/06/19 09:56	1

Definitions/Glossary

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

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

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 Gorgas

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05272 FB-1

Lab Sample ID: 400-167636-1

Date Collected: 02/26/19 11:20

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 12:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424351	04/18/19 08:41	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Client Sample ID: AZ05273 MW-24H

Lab Sample ID: 400-167636-2

Date Collected: 02/26/19 12:00

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 12:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424351	04/18/19 08:41	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Client Sample ID: AZ05274 MW-24H DUP

Lab Sample ID: 400-167636-3

Date Collected: 02/26/19 12:00

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 12:47	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424353	04/18/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Client Sample ID: AZ05275 MW-18V

Lab Sample ID: 400-167636-4

Date Collected: 02/26/19 15:15

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 12:48	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424353	04/18/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ05276 MW-29H

Lab Sample ID: 400-167636-5

Date Collected: 02/27/19 12:00

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 12:48	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424353	04/18/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Client Sample ID: AZ05277 MW-26H

Lab Sample ID: 400-167636-6

Date Collected: 02/27/19 15:47

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 14:54	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424353	04/18/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Client Sample ID: AZ05278 EB-1

Lab Sample ID: 400-167636-7

Date Collected: 02/27/19 15:37

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			422964	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9315		1	426116	04/30/19 14:54	CDR	TAL SL
Total/NA	Prep	PrecSep_0			422966	04/07/19 14:31	MMO	TAL SL
Total/NA	Analysis	9320		1	424353	04/18/19 08:43	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426330	05/01/19 09:26	SMP	TAL SL

Client Sample ID: AZ04745 MW-17V

Lab Sample ID: 400-167636-8

Date Collected: 02/20/19 14:24

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423239	04/10/19 14:08	CLP	TAL SL
Total/NA	Analysis	9315		1	426506	05/02/19 19:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423240	04/10/19 14:10	CLP	TAL SL
Total/NA	Analysis	9320		1	424434	04/19/19 15:18	BLH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426773	05/06/19 09:56	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-167636-1
SDG: Gorgas Ash Pond 1205

Client Sample ID: AZ04746 MW-12V

Lab Sample ID: 400-167636-9

Date Collected: 02/21/19 13:55

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423239	04/10/19 14:08	CLP	TAL SL
Total/NA	Analysis	9315		1	426506	05/02/19 19:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423240	04/10/19 14:10	CLP	TAL SL
Total/NA	Analysis	9320		1	424434	04/19/19 15:18	BLH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426773	05/06/19 09:56	SMP	TAL SL

Client Sample ID: AZ04556 MW-23H

Lab Sample ID: 400-167636-10

Date Collected: 02/20/19 11:15

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423239	04/10/19 14:08	CLP	TAL SL
Total/NA	Analysis	9315		1	426506	05/02/19 19:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423240	04/10/19 14:10	CLP	TAL SL
Total/NA	Analysis	9320		1	424435	04/19/19 15:20	BLH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426773	05/06/19 09:56	SMP	TAL SL

Client Sample ID: AZ06916 MW-28H

Lab Sample ID: 400-167636-11

Date Collected: 03/13/19 14:28

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423239	04/10/19 14:08	CLP	TAL SL
Total/NA	Analysis	9315		1	426506	05/02/19 19:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423240	04/10/19 14:10	CLP	TAL SL
Total/NA	Analysis	9320		1	424435	04/19/19 15:20	BLH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426773	05/06/19 09:56	SMP	TAL SL

Client Sample ID: AZ06917 MW-28HDIS

Lab Sample ID: 400-167636-12

Date Collected: 03/13/19 14:28

Matrix: Water

Date Received: 03/21/19 16:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423239	04/10/19 14:08	CLP	TAL SL
Total/NA	Analysis	9315		1	426506	05/02/19 19:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423240	04/10/19 14:10	CLP	TAL SL
Total/NA	Analysis	9320		1	424435	04/19/19 15:20	BLH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	426773	05/06/19 09:56	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Rad

Prep Batch: 422964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167636-1	AZ05272 FB-1	Total/NA	Water	PrecSep-21	
400-167636-2	AZ05273 MW-24H	Total/NA	Water	PrecSep-21	
400-167636-3	AZ05274 MW-24H DUP	Total/NA	Water	PrecSep-21	
400-167636-4	AZ05275 MW-18V	Total/NA	Water	PrecSep-21	
400-167636-5	AZ05276 MW-29H	Total/NA	Water	PrecSep-21	
400-167636-6	AZ05277 MW-26H	Total/NA	Water	PrecSep-21	
400-167636-7	AZ05278 EB-1	Total/NA	Water	PrecSep-21	
MB 160-422964/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-422964/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-167635-A-2-B DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 422966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167636-1	AZ05272 FB-1	Total/NA	Water	PrecSep_0	
400-167636-2	AZ05273 MW-24H	Total/NA	Water	PrecSep_0	
400-167636-3	AZ05274 MW-24H DUP	Total/NA	Water	PrecSep_0	
400-167636-4	AZ05275 MW-18V	Total/NA	Water	PrecSep_0	
400-167636-5	AZ05276 MW-29H	Total/NA	Water	PrecSep_0	
400-167636-6	AZ05277 MW-26H	Total/NA	Water	PrecSep_0	
400-167636-7	AZ05278 EB-1	Total/NA	Water	PrecSep_0	
MB 160-422966/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-422966/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-167635-A-2-E DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 423239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167636-8	AZ04745 MW-17V	Total/NA	Water	PrecSep-21	
400-167636-9	AZ04746 MW-12V	Total/NA	Water	PrecSep-21	
400-167636-10	AZ04556 MW-23H	Total/NA	Water	PrecSep-21	
400-167636-11	AZ06916 MW-28H	Total/NA	Water	PrecSep-21	
400-167636-12	AZ06917 MW-28HDIS	Total/NA	Water	PrecSep-21	
MB 160-423239/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-423239/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-423239/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 423240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-167636-8	AZ04745 MW-17V	Total/NA	Water	PrecSep_0	
400-167636-9	AZ04746 MW-12V	Total/NA	Water	PrecSep_0	
400-167636-10	AZ04556 MW-23H	Total/NA	Water	PrecSep_0	
400-167636-11	AZ06916 MW-28H	Total/NA	Water	PrecSep_0	
400-167636-12	AZ06917 MW-28HDIS	Total/NA	Water	PrecSep_0	
LCS 160-423240/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-423240/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-422964/18-A
Matrix: Water
Analysis Batch: 426116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422964

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.007536	U	0.0355	0.0355	1.00	0.0835	pCi/L	04/07/19 14:31	04/30/19 14:55	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	103				04/07/19 14:31	04/30/19 14:55	1			

Lab Sample ID: LCS 160-422964/1-A
Matrix: Water
Analysis Batch: 426116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422964

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.722		1.03	1.00	0.0960	pCi/L	86	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	98.5								

Lab Sample ID: 400-167635-A-2-B DU
Matrix: Water
Analysis Batch: 426116

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 422964

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.118		0.1178		0.0793	1.00	0.108	pCi/L	0	1
Carrier	DU	DU	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	97.3									

Lab Sample ID: MB 160-423239/23-A
Matrix: Water
Analysis Batch: 426506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423239

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.001833	U	0.0315	0.0315	1.00	0.0713	pCi/L	04/10/19 14:08	05/02/19 21:51	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	107				04/10/19 14:08	05/02/19 21:51	1			

Lab Sample ID: LCS 160-423239/1-A
Matrix: Water
Analysis Batch: 426594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423239

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.150		0.951	1.00	0.0762	pCi/L	81	75 - 125

QC Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

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

Lab Sample ID: LCS 160-423239/1-A
 Matrix: Water
 Analysis Batch: 426594

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 423239

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	108		40 - 110

Lab Sample ID: LCSD 160-423239/2-A
 Matrix: Water
 Analysis Batch: 426506

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 423239

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.4	8.705		0.904	1.00	0.0678	pCi/L	77	75 - 125	0.24	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	107		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-422966/18-A
 Matrix: Water
 Analysis Batch: 424353

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 422966

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1009	U	0.165	0.165	1.00	0.279	pCi/L	04/07/19 14:31	04/18/19 08:43	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110	04/07/19 14:31	04/18/19 08:43	1
Y Carrier	91.2		40 - 110	04/07/19 14:31	04/18/19 08:43	1

Lab Sample ID: LCS 160-422966/1-A
 Matrix: Water
 Analysis Batch: 424351

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 422966

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.29	10.20		1.14	1.00	0.352	pCi/L	110	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: 400-167635-A-2-E DU
 Matrix: Water
 Analysis Batch: 424351

Client Sample ID: Duplicate
 Prep Type: Total/NA
 Prep Batch: 422966

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.250	U	0.5271		0.240	1.00	0.333	pCi/L	0.60	1

QC Sample Results

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

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

Lab Sample ID: 400-167635-A-2-E DU
Matrix: Water
Analysis Batch: 424351

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 422966

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.3		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: LCS 160-423240/1-A
Matrix: Water
Analysis Batch: 424434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423240

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.29	7.592		0.974	1.00	0.471	pCi/L	82	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	108		40 - 110
Y Carrier	67.7		40 - 110

Lab Sample ID: LCSD 160-423240/2-A
Matrix: Water
Analysis Batch: 424434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423240

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
Radium-228	9.29	8.047		0.972	1.00	0.390	pCi/L	87	75 - 125	0.23	1	

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	107		40 - 110
Y Carrier	82.2		40 - 110

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

Lab Sample ID: 400-167635-A-2 DU
Matrix: Water
Analysis Batch: 426330


Client Sample ID: Duplicate
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	0.369		0.6449		0.253	5.00	0.333	pCi/L	0.57	

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 Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL 35040 Phone: 205-664-6197(Tel) Email: lbmidkiff@southernco.com Project Name: CCR Site: Gorgas Ash Pond 1205		Sampler: Nick Pitts Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking Note: COC No: 400-56525-24537.1 Page: Page 3 of 4 Job #:								
Analysis Requested Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSON#:		Analysis Requested  400-167636 COC										
Sample Identification AZ05272 AZ05273 AZ05274 AZ05275 AZ05276 AZ05277 AZ05278		Sample Date 2/26/19 2/26/19 2/26/19 2/26/19 2/27/19 2/27/19 2/27/19	Sample Time 11:20 12:00 12:00 15:15 12:00 15:47 15:37	Sample Type (C=Comp, G=grab) G G G G G G G	Matrix (W=Water, S=Soil, O=Oil, B=Blood, A=Air) Water Water Water Water Water Water Water	Preservation Code N N N N N N N	Perform MS/MSD (Yes or No) X X X X X X X	Field Filtered Sample (Yes or No) X X X X X X X	SM 4500 F _C SM 4500 CL _E SM 4500 SQA _E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc	Total Number of Containers 1 1 1 1 1 1 1	Special Instructions/Note: FB-1 (Field Blank) MW-24H MW-24H DUP (Sample Duplicate) MW-18V MW-29H MW-26H EB-1 (Equipment Blank)
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 <input type="checkbox"/> Deliverable Requested I, II, III, IV, Other (specify)												
Empty Kit Relinquished by: Laura Midkiff Relinquished by: Laura Midkiff Relinquished by: Relinquished by: Custody Seal No.: Δ Yes Δ 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: 3/20/2019 7:15 Company APC Received by: _____ Company Date/Time: 3-21-19 08:28 Received by: _____ Company Date/Time: _____ Received by: _____ Company Date/Time: _____ Cooler Temperature(s) °C and Other Remarks:												

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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 Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Callera State, Zip: AL 35040 Phone: 205-664-6197(Tel) Email: lbmidkiff@southernco.com Project Name: CCR Site: Gorgas Ash Pond 1205		Sampler: Bern Rothschild Phone: 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 4 Job #	
Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSOW#:		Analysis Requested  400-167637 COC			
Sample Identification AZ04556		Sample Date: 2/20/19 Sample Time: 11:15 Sample Type: G Matrix (Water, Solid, Dioxin, PCB, etc.): Water	Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes	SM 4500 F_C SM 4500 Cl_E SM 4500 S04_E 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc	Total Number of Containers: 1 Special Instructions/Note: MW-23H
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:					
<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: Laura Midkiff Relinquished by: Laura Midkiff Relinquished by:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:					
Date: 3/20/2019 7:15 Company: APC		Date of Shipment: 1636 Date/Time: 3-21-19 Date/Time: 08:28 Date/Time:			
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					



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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Laura Midkiff Phone: (850) 474-1001 Email: cheyenne.whitmire@testamericainc.com		Lab Fax: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking Note(s) COC No: 400-56525-24537.1 Page: Page 4 of 4 Job #:	
Company Information Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC #8 City: Calera State, Zip: AL 35040 Phone: 205-664-6197 (Tel) Email: lmidkiff@southernco.com		Due Date Requested: TAT Requested (days): PO #: 40007143 WO #: 40007143 Project #: 40007143 CCR: SSOVW# Site: Gorgas Ash Pond 1205		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Total Number of Containers: 1	
Sample Identification Sample ID: AZ06916 Sample ID: AZ06917		Sample Type (C=Comp, G=grab) Sample Time: 3/13/19 Sample Time: 14:28 Sample Time: 14:28		Matrix (w/water, Solid, Orwash, etc) Matrix: Water Matrix: Water	
Sample Date Sample Date: 3/13/19 Sample Date: 3/13/19		Preservation Code Preservation Code: MW-28H Preservation Code: MW-28H/DS		Special Instructions/Note: MW-28H MW-28H/DS	
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:					
Special Instructions/Note: MW-28H MW-28H/DS					
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: Laura Midkiff		Date: 3/20/2019 7:15 Company: APC		Method of Shipment:	
Relinquished by: Relinquished by: Laura Midkiff		Date/Time: 3/20/19 08:36 Company: APEN		Date/Time: 3/20/19 08:36 Company: APEN	
Relinquished by: Relinquished by: Laura Midkiff		Date/Time: 3/20/19 08:36 Company: APEN		Date/Time: 3/20/19 08:36 Company: APEN	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 7.5°C (RY)	



Chain of Custody Record

Client Information		Company: Alabama Power General Test Laboratory		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-56625-24537.1	
Client Contact: Laura Midkiff		Address: 744 County Rd 87 GSC #8		E-Mail: cheyenne.whitmire@testamericainc.com		Job #:		Page 2 of 4	
City: Callera		State: AL		Phone: 206-664-6197(Tel)		Due Date Requested:		Preservation Codes:	
State: AL		Zip: 35040		Email: lmidkiff@southernco.com		TAT Requested (days):		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:	
Project Name: Gorgas Ash Pond 1205		Project #: 40007143		WC #:		PO #:		M - Hexane N - None O - AskaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify)	
Site: Gorgas Ash Pond 1205		SSOW#:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Identification		Sample Date		Sample Time		Sample Matrix (W=water, S=soil, D=diesel, etc. In-use, Ash)		Preservation Code	
AZ04745	2/20/19	14:24	G	Water					
AZ04746	2/21/19	13:55	G	Water					
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SM 4500 F.C		SM 4500 CLF		SM 4500 SQ4.E	
9315_R4226, 9320_R4228, R4226R4228_GFP		X		X		X		X	
Total Number of Containers		Special Instructions/Note:		MW-1TV		MW-12V			
1									
3									
<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: Laura Midkiff Date: 3/20/2019 7:45 Company APC Relinquished by: Date/Time Company Relinquished by: Date/Time Company Custody Seals Intact: Custody Seal No. Δ Yes Δ No									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Special Instructions/QC Requirements Received by: 3/21/19 1636 Company TAKEN Received by: Date/Time Company Received by: Date/Time Company Cooler Temperature(s) °C and Other Remarks: 17.5°C 18.7									



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-167636-1
SDG Number: Gorgas Ash Pond 1205

Login Number: 167636

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Brown, Nathan

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	17.5°C IR7
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	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-167636-1
SDG Number: Gorgas Ash Pond 1205

Login Number: 167636

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 03/25/19 08:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-20
West Virginia DEP	State Program	3	136	07-31-19

Accreditation/Certification Summary

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

Job ID: 400-167636-1
 SDG: Gorgas Ash Pond 1205

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-23H	2/20/2019 10:43	Conductivity	760.6	uS/cm
GS-AP-MW-23H	2/20/2019 10:43	DO	6.04	mg/L
GS-AP-MW-23H	2/20/2019 10:43	Depth to Water Detail	27.95	ft
GS-AP-MW-23H	2/20/2019 10:43	Oxidation Reduction Potention	-1.7	mv
GS-AP-MW-23H	2/20/2019 10:43	pH	6.05	pH
GS-AP-MW-23H	2/20/2019 10:43	Temperature	17.4	C
GS-AP-MW-23H	2/20/2019 10:43	Turbidity	17.4	NTU
GS-AP-MW-23H	2/20/2019 10:48	Conductivity	763.2	uS/cm
GS-AP-MW-23H	2/20/2019 10:48	DO	6.45	mg/L
GS-AP-MW-23H	2/20/2019 10:48	Depth to Water Detail	28	ft
GS-AP-MW-23H	2/20/2019 10:48	Oxidation Reduction Potention	-5.1	mv
GS-AP-MW-23H	2/20/2019 10:48	pH	6.07	pH
GS-AP-MW-23H	2/20/2019 10:48	Temperature	17.37	C
GS-AP-MW-23H	2/20/2019 10:48	Turbidity	12.5	NTU
GS-AP-MW-23H	2/20/2019 10:53	Conductivity	760.4	uS/cm
GS-AP-MW-23H	2/20/2019 10:53	DO	6.59	mg/L
GS-AP-MW-23H	2/20/2019 10:53	Depth to Water Detail	28.06	ft
GS-AP-MW-23H	2/20/2019 10:53	Oxidation Reduction Potention	-6.7	mv
GS-AP-MW-23H	2/20/2019 10:53	pH	6.1	pH
GS-AP-MW-23H	2/20/2019 10:53	Temperature	17.4	C
GS-AP-MW-23H	2/20/2019 10:53	Turbidity	11.16	NTU
GS-AP-MW-23H	2/20/2019 10:58	Conductivity	759.9	uS/cm
GS-AP-MW-23H	2/20/2019 10:58	DO	6.57	mg/L
GS-AP-MW-23H	2/20/2019 10:58	Depth to Water Detail	28.08	ft
GS-AP-MW-23H	2/20/2019 10:58	Oxidation Reduction Potention	-7.6	mv
GS-AP-MW-23H	2/20/2019 10:58	pH	6.11	pH
GS-AP-MW-23H	2/20/2019 10:58	Temperature	17.4	C
GS-AP-MW-23H	2/20/2019 10:58	Turbidity	9.66	NTU
GS-AP-MW-23H	2/20/2019 11:03	Conductivity	758.8	uS/cm
GS-AP-MW-23H	2/20/2019 11:03	DO	6.42	mg/L
GS-AP-MW-23H	2/20/2019 11:03	Depth to Water Detail	28.1	ft
GS-AP-MW-23H	2/20/2019 11:03	Oxidation Reduction Potention	-7.5	mv
GS-AP-MW-23H	2/20/2019 11:03	pH	6.13	pH
GS-AP-MW-23H	2/20/2019 11:03	Temperature	17.4	C
GS-AP-MW-23H	2/20/2019 11:03	Turbidity	5.92	NTU
GS-AP-MW-23H	2/20/2019 11:08	Conductivity	757.4	uS/cm
GS-AP-MW-23H	2/20/2019 11:08	DO	6.43	mg/L
GS-AP-MW-23H	2/20/2019 11:08	Depth to Water Detail	28.13	ft
GS-AP-MW-23H	2/20/2019 11:08	Oxidation Reduction Potention	-8.6	mv
GS-AP-MW-23H	2/20/2019 11:08	pH	6.15	pH
GS-AP-MW-23H	2/20/2019 11:08	Temperature	17.4	C
GS-AP-MW-23H	2/20/2019 11:08	Turbidity	5.9	NTU
GS-AP-MW-23H	2/20/2019 11:13	Conductivity	758.1	uS/cm
GS-AP-MW-23H	2/20/2019 11:13	DO	6.5	mg/L
GS-AP-MW-23H	2/20/2019 11:13	Depth to Water Detail	28.15	ft
GS-AP-MW-23H	2/20/2019 11:13	Oxidation Reduction Potention	-10.1	mv

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-23H	2/20/2019 11:13	pH	6.17	pH
GS-AP-MW-23H	2/20/2019 11:13	Temperature	17.39	C
GS-AP-MW-23H	2/20/2019 11:13	Turbidity	4.33	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 10:23	Conductivity	614.8	uS/cm
GS-AP-MW-12V	2/21/2019 10:23	DO	0.64	mg/L
GS-AP-MW-12V	2/21/2019 10:23	Depth to Water Detail	89.5	ft
GS-AP-MW-12V	2/21/2019 10:23	Oxidation Reduction Potention	-62.3	mv
GS-AP-MW-12V	2/21/2019 10:23	pH	11.17	pH
GS-AP-MW-12V	2/21/2019 10:23	Temperature	16.37	C
GS-AP-MW-12V	2/21/2019 10:23	Turbidity	109.7	NTU
GS-AP-MW-12V	2/21/2019 10:28	Conductivity	623.7	uS/cm
GS-AP-MW-12V	2/21/2019 10:28	DO	0.45	mg/L
GS-AP-MW-12V	2/21/2019 10:28	Depth to Water Detail	90.2	ft
GS-AP-MW-12V	2/21/2019 10:28	Oxidation Reduction Potention	-65.1	mv
GS-AP-MW-12V	2/21/2019 10:28	pH	11.21	pH
GS-AP-MW-12V	2/21/2019 10:28	Temperature	16.32	C
GS-AP-MW-12V	2/21/2019 10:28	Turbidity	92.4	NTU
GS-AP-MW-12V	2/21/2019 10:33	Conductivity	606.7	uS/cm
GS-AP-MW-12V	2/21/2019 10:33	DO	0.4	mg/L
GS-AP-MW-12V	2/21/2019 10:33	Depth to Water Detail	91	ft
GS-AP-MW-12V	2/21/2019 10:33	Oxidation Reduction Potention	-63.7	mv
GS-AP-MW-12V	2/21/2019 10:33	pH	11.18	pH
GS-AP-MW-12V	2/21/2019 10:33	Temperature	16.35	C
GS-AP-MW-12V	2/21/2019 10:33	Turbidity	94	NTU
GS-AP-MW-12V	2/21/2019 10:38	Conductivity	576.8	uS/cm
GS-AP-MW-12V	2/21/2019 10:38	DO	0.37	mg/L
GS-AP-MW-12V	2/21/2019 10:38	Depth to Water Detail	91.9	ft
GS-AP-MW-12V	2/21/2019 10:38	Oxidation Reduction Potention	-61.9	mv
GS-AP-MW-12V	2/21/2019 10:38	pH	11.11	pH
GS-AP-MW-12V	2/21/2019 10:38	Temperature	16.4	C
GS-AP-MW-12V	2/21/2019 10:38	Turbidity	95.7	NTU
GS-AP-MW-12V	2/21/2019 10:43	Conductivity	525.9	uS/cm
GS-AP-MW-12V	2/21/2019 10:43	DO	0.34	mg/L
GS-AP-MW-12V	2/21/2019 10:43	Depth to Water Detail	92.8	ft
GS-AP-MW-12V	2/21/2019 10:43	Oxidation Reduction Potention	-57.9	mv
GS-AP-MW-12V	2/21/2019 10:43	pH	10.95	pH
GS-AP-MW-12V	2/21/2019 10:43	Temperature	16.36	C
GS-AP-MW-12V	2/21/2019 10:43	Turbidity	69.4	NTU
GS-AP-MW-12V	2/21/2019 10:48	Conductivity	453.3	uS/cm
GS-AP-MW-12V	2/21/2019 10:48	DO	0.32	mg/L
GS-AP-MW-12V	2/21/2019 10:48	Depth to Water Detail	93.5	ft
GS-AP-MW-12V	2/21/2019 10:48	Oxidation Reduction Potention	-50.6	mv
GS-AP-MW-12V	2/21/2019 10:48	pH	10.57	pH
GS-AP-MW-12V	2/21/2019 10:48	Temperature	16.36	C
GS-AP-MW-12V	2/21/2019 10:48	Turbidity	62	NTU
GS-AP-MW-12V	2/21/2019 10:53	Conductivity	417.9	uS/cm
GS-AP-MW-12V	2/21/2019 10:53	DO	0.3	mg/L
GS-AP-MW-12V	2/21/2019 10:53	Depth to Water Detail	94.1	ft
GS-AP-MW-12V	2/21/2019 10:53	Oxidation Reduction Potention	-45.6	mv

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 10:53	pH	10.31	pH
GS-AP-MW-12V	2/21/2019 10:53	Temperature	16.36	C
GS-AP-MW-12V	2/21/2019 10:53	Turbidity	52.4	NTU
GS-AP-MW-12V	2/21/2019 10:58	Conductivity	392.3	uS/cm
GS-AP-MW-12V	2/21/2019 10:58	DO	0.29	mg/L
GS-AP-MW-12V	2/21/2019 10:58	Depth to Water Detail	94.3	ft
GS-AP-MW-12V	2/21/2019 10:58	Oxidation Reduction Potention	-39.8	mv
GS-AP-MW-12V	2/21/2019 10:58	pH	10.02	pH
GS-AP-MW-12V	2/21/2019 10:58	Temperature	16.4	C
GS-AP-MW-12V	2/21/2019 10:58	Turbidity	50	NTU
GS-AP-MW-12V	2/21/2019 11:03	Conductivity	379.7	uS/cm
GS-AP-MW-12V	2/21/2019 11:03	DO	0.27	mg/L
GS-AP-MW-12V	2/21/2019 11:03	Depth to Water Detail	94.5	ft
GS-AP-MW-12V	2/21/2019 11:03	Oxidation Reduction Potention	-34.8	mv
GS-AP-MW-12V	2/21/2019 11:03	pH	9.76	pH
GS-AP-MW-12V	2/21/2019 11:03	Temperature	16.37	C
GS-AP-MW-12V	2/21/2019 11:03	Turbidity	49	NTU
GS-AP-MW-12V	2/21/2019 11:08	Conductivity	375.1	uS/cm
GS-AP-MW-12V	2/21/2019 11:08	DO	0.27	mg/L
GS-AP-MW-12V	2/21/2019 11:08	Depth to Water Detail	94.89	ft
GS-AP-MW-12V	2/21/2019 11:08	Oxidation Reduction Potention	-33.3	mv
GS-AP-MW-12V	2/21/2019 11:08	pH	9.6	pH
GS-AP-MW-12V	2/21/2019 11:08	Temperature	16.38	C
GS-AP-MW-12V	2/21/2019 11:08	Turbidity	37.2	NTU
GS-AP-MW-12V	2/21/2019 11:13	Conductivity	373.1	uS/cm
GS-AP-MW-12V	2/21/2019 11:13	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 11:13	Depth to Water Detail	95.4	ft
GS-AP-MW-12V	2/21/2019 11:13	Oxidation Reduction Potention	-31	mv
GS-AP-MW-12V	2/21/2019 11:13	pH	9.41	pH
GS-AP-MW-12V	2/21/2019 11:13	Temperature	16.4	C
GS-AP-MW-12V	2/21/2019 11:13	Turbidity	30.6	NTU
GS-AP-MW-12V	2/21/2019 11:18	Conductivity	374.2	uS/cm
GS-AP-MW-12V	2/21/2019 11:18	DO	0.23	mg/L
GS-AP-MW-12V	2/21/2019 11:18	Depth to Water Detail	95.8	ft
GS-AP-MW-12V	2/21/2019 11:18	Oxidation Reduction Potention	-32.6	mv
GS-AP-MW-12V	2/21/2019 11:18	pH	9.26	pH
GS-AP-MW-12V	2/21/2019 11:18	Temperature	16.39	C
GS-AP-MW-12V	2/21/2019 11:18	Turbidity	33.3	NTU
GS-AP-MW-12V	2/21/2019 11:23	Conductivity	375.6	uS/cm
GS-AP-MW-12V	2/21/2019 11:23	DO	0.22	mg/L
GS-AP-MW-12V	2/21/2019 11:23	Depth to Water Detail	95.95	ft
GS-AP-MW-12V	2/21/2019 11:23	Oxidation Reduction Potention	-52.9	mv
GS-AP-MW-12V	2/21/2019 11:23	pH	9.13	pH
GS-AP-MW-12V	2/21/2019 11:23	Temperature	16.44	C
GS-AP-MW-12V	2/21/2019 11:23	Turbidity	31.6	NTU
GS-AP-MW-12V	2/21/2019 11:28	Conductivity	376.5	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 11:28	DO	0.21	mg/L
GS-AP-MW-12V	2/21/2019 11:28	Depth to Water Detail	96.2	ft
GS-AP-MW-12V	2/21/2019 11:28	Oxidation Reduction Potention	-93.5	mv
GS-AP-MW-12V	2/21/2019 11:28	pH	9.05	pH
GS-AP-MW-12V	2/21/2019 11:28	Temperature	16.45	C
GS-AP-MW-12V	2/21/2019 11:28	Turbidity	34	NTU
GS-AP-MW-12V	2/21/2019 11:33	Conductivity	379.2	uS/cm
GS-AP-MW-12V	2/21/2019 11:33	DO	0.2	mg/L
GS-AP-MW-12V	2/21/2019 11:33	Depth to Water Detail	96.5	ft
GS-AP-MW-12V	2/21/2019 11:33	Oxidation Reduction Potention	-167.8	mv
GS-AP-MW-12V	2/21/2019 11:33	pH	8.92	pH
GS-AP-MW-12V	2/21/2019 11:33	Temperature	16.49	C
GS-AP-MW-12V	2/21/2019 11:33	Turbidity	31.2	NTU
GS-AP-MW-12V	2/21/2019 11:38	Conductivity	381.8	uS/cm
GS-AP-MW-12V	2/21/2019 11:38	DO	0.2	mg/L
GS-AP-MW-12V	2/21/2019 11:38	Depth to Water Detail	96.7	ft
GS-AP-MW-12V	2/21/2019 11:38	Oxidation Reduction Potention	-208.4	mv
GS-AP-MW-12V	2/21/2019 11:38	pH	8.84	pH
GS-AP-MW-12V	2/21/2019 11:38	Temperature	16.41	C
GS-AP-MW-12V	2/21/2019 11:38	Turbidity	32.8	NTU
GS-AP-MW-12V	2/21/2019 11:43	Conductivity	385.2	uS/cm
GS-AP-MW-12V	2/21/2019 11:43	DO	0.2	mg/L
GS-AP-MW-12V	2/21/2019 11:43	Depth to Water Detail	96.9	ft
GS-AP-MW-12V	2/21/2019 11:43	Oxidation Reduction Potention	-227.3	mv
GS-AP-MW-12V	2/21/2019 11:43	pH	8.7	pH
GS-AP-MW-12V	2/21/2019 11:43	Temperature	16.44	C
GS-AP-MW-12V	2/21/2019 11:43	Turbidity	27.3	NTU
GS-AP-MW-12V	2/21/2019 11:48	Conductivity	388.8	uS/cm
GS-AP-MW-12V	2/21/2019 11:48	DO	0.22	mg/L
GS-AP-MW-12V	2/21/2019 11:48	Depth to Water Detail	97.05	ft
GS-AP-MW-12V	2/21/2019 11:48	Oxidation Reduction Potention	-235.3	mv
GS-AP-MW-12V	2/21/2019 11:48	pH	8.58	pH
GS-AP-MW-12V	2/21/2019 11:48	Temperature	16.4	C
GS-AP-MW-12V	2/21/2019 11:48	Turbidity	29.8	NTU
GS-AP-MW-12V	2/21/2019 11:53	Conductivity	390.7	uS/cm
GS-AP-MW-12V	2/21/2019 11:53	DO	0.23	mg/L
GS-AP-MW-12V	2/21/2019 11:53	Depth to Water Detail	97.15	ft
GS-AP-MW-12V	2/21/2019 11:53	Oxidation Reduction Potention	-232.8	mv
GS-AP-MW-12V	2/21/2019 11:53	pH	8.49	pH
GS-AP-MW-12V	2/21/2019 11:53	Temperature	16.44	C
GS-AP-MW-12V	2/21/2019 11:53	Turbidity	26.4	NTU
GS-AP-MW-12V	2/21/2019 11:58	Conductivity	392.5	uS/cm
GS-AP-MW-12V	2/21/2019 11:58	DO	0.23	mg/L
GS-AP-MW-12V	2/21/2019 11:58	Depth to Water Detail	97.3	ft
GS-AP-MW-12V	2/21/2019 11:58	Oxidation Reduction Potention	-226.8	mv
GS-AP-MW-12V	2/21/2019 11:58	pH	8.38	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 11:58	Temperature	16.45	C
GS-AP-MW-12V	2/21/2019 11:58	Turbidity	22.2	NTU
GS-AP-MW-12V	2/21/2019 12:03	Conductivity	393.8	uS/cm
GS-AP-MW-12V	2/21/2019 12:03	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 12:03	Depth to Water Detail	97.5	ft
GS-AP-MW-12V	2/21/2019 12:03	Oxidation Reduction Potention	-217	mv
GS-AP-MW-12V	2/21/2019 12:03	pH	8.28	pH
GS-AP-MW-12V	2/21/2019 12:03	Temperature	16.44	C
GS-AP-MW-12V	2/21/2019 12:03	Turbidity	23.1	NTU
GS-AP-MW-12V	2/21/2019 12:08	Conductivity	394.6	uS/cm
GS-AP-MW-12V	2/21/2019 12:08	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 12:08	Depth to Water Detail	97.6	ft
GS-AP-MW-12V	2/21/2019 12:08	Oxidation Reduction Potention	-209.4	mv
GS-AP-MW-12V	2/21/2019 12:08	pH	8.19	pH
GS-AP-MW-12V	2/21/2019 12:08	Temperature	16.44	C
GS-AP-MW-12V	2/21/2019 12:08	Turbidity	22.1	NTU
GS-AP-MW-12V	2/21/2019 12:13	Conductivity	396.1	uS/cm
GS-AP-MW-12V	2/21/2019 12:13	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 12:13	Depth to Water Detail	97.8	ft
GS-AP-MW-12V	2/21/2019 12:13	Oxidation Reduction Potention	-192	mv
GS-AP-MW-12V	2/21/2019 12:13	pH	8.05	pH
GS-AP-MW-12V	2/21/2019 12:13	Temperature	16.4	C
GS-AP-MW-12V	2/21/2019 12:13	Turbidity	21.4	NTU
GS-AP-MW-12V	2/21/2019 12:18	Conductivity	395.6	uS/cm
GS-AP-MW-12V	2/21/2019 12:18	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 12:18	Depth to Water Detail	97.9	ft
GS-AP-MW-12V	2/21/2019 12:18	Oxidation Reduction Potention	-187.8	mv
GS-AP-MW-12V	2/21/2019 12:18	pH	8	pH
GS-AP-MW-12V	2/21/2019 12:18	Temperature	16.43	C
GS-AP-MW-12V	2/21/2019 12:18	Turbidity	16.9	NTU
GS-AP-MW-12V	2/21/2019 12:23	Conductivity	395.9	uS/cm
GS-AP-MW-12V	2/21/2019 12:23	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 12:23	Depth to Water Detail	97.92	ft
GS-AP-MW-12V	2/21/2019 12:23	Oxidation Reduction Potention	-181.4	mv
GS-AP-MW-12V	2/21/2019 12:23	pH	7.94	pH
GS-AP-MW-12V	2/21/2019 12:23	Temperature	16.37	C
GS-AP-MW-12V	2/21/2019 12:23	Turbidity	16.8	NTU
GS-AP-MW-12V	2/21/2019 12:28	Conductivity	396.5	uS/cm
GS-AP-MW-12V	2/21/2019 12:28	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 12:28	Depth to Water Detail	98	ft
GS-AP-MW-12V	2/21/2019 12:28	Oxidation Reduction Potention	-170.4	mv
GS-AP-MW-12V	2/21/2019 12:28	pH	7.85	pH
GS-AP-MW-12V	2/21/2019 12:28	Temperature	16.49	C
GS-AP-MW-12V	2/21/2019 12:28	Turbidity	17	NTU
GS-AP-MW-12V	2/21/2019 12:33	Conductivity	396.5	uS/cm
GS-AP-MW-12V	2/21/2019 12:33	DO	0.26	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 12:33	Depth to Water Detail	98.1	ft
GS-AP-MW-12V	2/21/2019 12:33	Oxidation Reduction Potention	-166.5	mv
GS-AP-MW-12V	2/21/2019 12:33	pH	7.81	pH
GS-AP-MW-12V	2/21/2019 12:33	Temperature	16.54	C
GS-AP-MW-12V	2/21/2019 12:33	Turbidity	17.9	NTU
GS-AP-MW-12V	2/21/2019 12:38	Conductivity	396.6	uS/cm
GS-AP-MW-12V	2/21/2019 12:38	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 12:38	Depth to Water Detail	98.12	ft
GS-AP-MW-12V	2/21/2019 12:38	Oxidation Reduction Potention	-158.5	mv
GS-AP-MW-12V	2/21/2019 12:38	pH	7.75	pH
GS-AP-MW-12V	2/21/2019 12:38	Temperature	16.45	C
GS-AP-MW-12V	2/21/2019 12:38	Turbidity	15.3	NTU
GS-AP-MW-12V	2/21/2019 12:43	Conductivity	395.8	uS/cm
GS-AP-MW-12V	2/21/2019 12:43	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 12:43	Depth to Water Detail	98.2	ft
GS-AP-MW-12V	2/21/2019 12:43	Oxidation Reduction Potention	-153.8	mv
GS-AP-MW-12V	2/21/2019 12:43	pH	7.71	pH
GS-AP-MW-12V	2/21/2019 12:43	Temperature	16.53	C
GS-AP-MW-12V	2/21/2019 12:43	Turbidity	16.5	NTU
GS-AP-MW-12V	2/21/2019 12:48	Conductivity	396.1	uS/cm
GS-AP-MW-12V	2/21/2019 12:48	DO	0.25	mg/L
GS-AP-MW-12V	2/21/2019 12:48	Depth to Water Detail	98.25	ft
GS-AP-MW-12V	2/21/2019 12:48	Oxidation Reduction Potention	-151.8	mv
GS-AP-MW-12V	2/21/2019 12:48	pH	7.7	pH
GS-AP-MW-12V	2/21/2019 12:48	Temperature	16.49	C
GS-AP-MW-12V	2/21/2019 12:48	Turbidity	14.2	NTU
GS-AP-MW-12V	2/21/2019 12:53	Conductivity	397.1	uS/cm
GS-AP-MW-12V	2/21/2019 12:53	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 12:53	Depth to Water Detail	98.38	ft
GS-AP-MW-12V	2/21/2019 12:53	Oxidation Reduction Potention	-146.6	mv
GS-AP-MW-12V	2/21/2019 12:53	pH	7.64	pH
GS-AP-MW-12V	2/21/2019 12:53	Temperature	16.47	C
GS-AP-MW-12V	2/21/2019 12:53	Turbidity	18.9	NTU
GS-AP-MW-12V	2/21/2019 12:58	Conductivity	396.6	uS/cm
GS-AP-MW-12V	2/21/2019 12:58	DO	0.25	mg/L
GS-AP-MW-12V	2/21/2019 12:58	Depth to Water Detail	98.4	ft
GS-AP-MW-12V	2/21/2019 12:58	Oxidation Reduction Potention	-142.7	mv
GS-AP-MW-12V	2/21/2019 12:58	pH	7.62	pH
GS-AP-MW-12V	2/21/2019 12:58	Temperature	16.54	C
GS-AP-MW-12V	2/21/2019 12:58	Turbidity	13	NTU
GS-AP-MW-12V	2/21/2019 13:03	Conductivity	397	uS/cm
GS-AP-MW-12V	2/21/2019 13:03	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:03	Depth to Water Detail	98.45	ft
GS-AP-MW-12V	2/21/2019 13:03	Oxidation Reduction Potention	-136.6	mv
GS-AP-MW-12V	2/21/2019 13:03	pH	7.58	pH
GS-AP-MW-12V	2/21/2019 13:03	Temperature	16.54	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 13:03	Turbidity	13.4	NTU
GS-AP-MW-12V	2/21/2019 13:08	Conductivity	397	uS/cm
GS-AP-MW-12V	2/21/2019 13:08	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:08	Depth to Water Detail	98.5	ft
GS-AP-MW-12V	2/21/2019 13:08	Oxidation Reduction Potention	-134.5	mv
GS-AP-MW-12V	2/21/2019 13:08	pH	7.56	pH
GS-AP-MW-12V	2/21/2019 13:08	Temperature	16.49	C
GS-AP-MW-12V	2/21/2019 13:08	Turbidity	13.9	NTU
GS-AP-MW-12V	2/21/2019 13:13	Conductivity	397.2	uS/cm
GS-AP-MW-12V	2/21/2019 13:13	DO	0.24	mg/L
GS-AP-MW-12V	2/21/2019 13:13	Depth to Water Detail	98.5	ft
GS-AP-MW-12V	2/21/2019 13:13	Oxidation Reduction Potention	-132.1	mv
GS-AP-MW-12V	2/21/2019 13:13	pH	7.55	pH
GS-AP-MW-12V	2/21/2019 13:13	Temperature	16.44	C
GS-AP-MW-12V	2/21/2019 13:13	Turbidity	13.1	NTU
GS-AP-MW-12V	2/21/2019 13:18	Conductivity	397.4	uS/cm
GS-AP-MW-12V	2/21/2019 13:18	DO	0.25	mg/L
GS-AP-MW-12V	2/21/2019 13:18	Depth to Water Detail	98.5	ft
GS-AP-MW-12V	2/21/2019 13:18	Oxidation Reduction Potention	-130.5	mv
GS-AP-MW-12V	2/21/2019 13:18	pH	7.54	pH
GS-AP-MW-12V	2/21/2019 13:18	Temperature	16.45	C
GS-AP-MW-12V	2/21/2019 13:18	Turbidity	11.4	NTU
GS-AP-MW-12V	2/21/2019 13:23	Conductivity	396.1	uS/cm
GS-AP-MW-12V	2/21/2019 13:23	DO	0.25	mg/L
GS-AP-MW-12V	2/21/2019 13:23	Depth to Water Detail	98.6	ft
GS-AP-MW-12V	2/21/2019 13:23	Oxidation Reduction Potention	-128.7	mv
GS-AP-MW-12V	2/21/2019 13:23	pH	7.52	pH
GS-AP-MW-12V	2/21/2019 13:23	Temperature	16.4	C
GS-AP-MW-12V	2/21/2019 13:23	Turbidity	12.2	NTU
GS-AP-MW-12V	2/21/2019 13:28	Conductivity	397.4	uS/cm
GS-AP-MW-12V	2/21/2019 13:28	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:28	Depth to Water Detail	98.59	ft
GS-AP-MW-12V	2/21/2019 13:28	Oxidation Reduction Potention	-127.5	mv
GS-AP-MW-12V	2/21/2019 13:28	pH	7.52	pH
GS-AP-MW-12V	2/21/2019 13:28	Temperature	16.43	C
GS-AP-MW-12V	2/21/2019 13:28	Turbidity	12.4	NTU
GS-AP-MW-12V	2/21/2019 13:33	Conductivity	397.1	uS/cm
GS-AP-MW-12V	2/21/2019 13:33	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:33	Depth to Water Detail	98.65	ft
GS-AP-MW-12V	2/21/2019 13:33	Oxidation Reduction Potention	-125.2	mv
GS-AP-MW-12V	2/21/2019 13:33	pH	7.5	pH
GS-AP-MW-12V	2/21/2019 13:33	Temperature	16.41	C
GS-AP-MW-12V	2/21/2019 13:33	Turbidity	11	NTU
GS-AP-MW-12V	2/21/2019 13:38	Conductivity	397.2	uS/cm
GS-AP-MW-12V	2/21/2019 13:38	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:38	Depth to Water Detail	98.68	ft

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Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	2/21/2019 13:38	Oxidation Reduction Potention	-123.1	mv
GS-AP-MW-12V	2/21/2019 13:38	pH	7.48	pH
GS-AP-MW-12V	2/21/2019 13:38	Temperature	16.38	C
GS-AP-MW-12V	2/21/2019 13:38	Turbidity	11	NTU
GS-AP-MW-12V	2/21/2019 13:43	Conductivity	396.8	uS/cm
GS-AP-MW-12V	2/21/2019 13:43	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:43	Depth to Water Detail	98.7	ft
GS-AP-MW-12V	2/21/2019 13:43	Oxidation Reduction Potention	-121.9	mv
GS-AP-MW-12V	2/21/2019 13:43	pH	7.48	pH
GS-AP-MW-12V	2/21/2019 13:43	Temperature	16.35	C
GS-AP-MW-12V	2/21/2019 13:43	Turbidity	11	NTU
GS-AP-MW-12V	2/21/2019 13:48	Conductivity	398.4	uS/cm
GS-AP-MW-12V	2/21/2019 13:48	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:48	Depth to Water Detail	98.7	ft
GS-AP-MW-12V	2/21/2019 13:48	Oxidation Reduction Potention	-119.7	mv
GS-AP-MW-12V	2/21/2019 13:48	pH	7.47	pH
GS-AP-MW-12V	2/21/2019 13:48	Temperature	16.22	C
GS-AP-MW-12V	2/21/2019 13:48	Turbidity	12.2	NTU
GS-AP-MW-12V	2/21/2019 13:53	Conductivity	398.2	uS/cm
GS-AP-MW-12V	2/21/2019 13:53	DO	0.26	mg/L
GS-AP-MW-12V	2/21/2019 13:53	Depth to Water Detail	98.7	ft
GS-AP-MW-12V	2/21/2019 13:53	Oxidation Reduction Potention	-118.8	mv
GS-AP-MW-12V	2/21/2019 13:53	pH	7.46	pH
GS-AP-MW-12V	2/21/2019 13:53	Temperature	16.22	C
GS-AP-MW-12V	2/21/2019 13:53	Turbidity	9.89	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 10:56	Conductivity	568.9	uS/cm
GS-AP-MW-17V	2/20/2019 10:56	DO	9.04	mg/L
GS-AP-MW-17V	2/20/2019 10:56	Depth to Water Detail	100.9	ft
GS-AP-MW-17V	2/20/2019 10:56	Oxidation Reduction Potention	-9.6	mv
GS-AP-MW-17V	2/20/2019 10:56	pH	7.59	pH
GS-AP-MW-17V	2/20/2019 10:56	Temperature	14.38	C
GS-AP-MW-17V	2/20/2019 10:56	Turbidity	67	NTU
GS-AP-MW-17V	2/20/2019 11:01	Conductivity	564.2	uS/cm
GS-AP-MW-17V	2/20/2019 11:01	DO	10.07	mg/L
GS-AP-MW-17V	2/20/2019 11:01	Depth to Water Detail	101.5	ft
GS-AP-MW-17V	2/20/2019 11:01	Oxidation Reduction Potention	16.1	mv
GS-AP-MW-17V	2/20/2019 11:01	pH	7.74	pH
GS-AP-MW-17V	2/20/2019 11:01	Temperature	14.47	C
GS-AP-MW-17V	2/20/2019 11:01	Turbidity	28	NTU
GS-AP-MW-17V	2/20/2019 11:06	Conductivity	564.2	uS/cm
GS-AP-MW-17V	2/20/2019 11:06	DO	10.69	mg/L
GS-AP-MW-17V	2/20/2019 11:06	Depth to Water Detail	103.5	ft
GS-AP-MW-17V	2/20/2019 11:06	Oxidation Reduction Potention	30	mv
GS-AP-MW-17V	2/20/2019 11:06	pH	7.85	pH
GS-AP-MW-17V	2/20/2019 11:06	Temperature	14.4	C
GS-AP-MW-17V	2/20/2019 11:06	Turbidity	71.9	NTU
GS-AP-MW-17V	2/20/2019 11:11	Conductivity	566.7	uS/cm
GS-AP-MW-17V	2/20/2019 11:11	DO	11	mg/L
GS-AP-MW-17V	2/20/2019 11:11	Depth to Water Detail	103.9	ft
GS-AP-MW-17V	2/20/2019 11:11	Oxidation Reduction Potention	38.5	mv
GS-AP-MW-17V	2/20/2019 11:11	pH	7.93	pH
GS-AP-MW-17V	2/20/2019 11:11	Temperature	14.83	C
GS-AP-MW-17V	2/20/2019 11:11	Turbidity	70.1	NTU
GS-AP-MW-17V	2/20/2019 11:16	Conductivity	564.6	uS/cm
GS-AP-MW-17V	2/20/2019 11:16	DO	11.05	mg/L
GS-AP-MW-17V	2/20/2019 11:16	Depth to Water Detail	104.2	ft
GS-AP-MW-17V	2/20/2019 11:16	Oxidation Reduction Potention	43.1	mv
GS-AP-MW-17V	2/20/2019 11:16	pH	7.95	pH
GS-AP-MW-17V	2/20/2019 11:16	Temperature	14.93	C
GS-AP-MW-17V	2/20/2019 11:16	Turbidity	69.4	NTU
GS-AP-MW-17V	2/20/2019 11:21	Conductivity	561.7	uS/cm
GS-AP-MW-17V	2/20/2019 11:21	DO	11.04	mg/L
GS-AP-MW-17V	2/20/2019 11:21	Depth to Water Detail	104.35	ft
GS-AP-MW-17V	2/20/2019 11:21	Oxidation Reduction Potention	46.7	mv
GS-AP-MW-17V	2/20/2019 11:21	pH	7.94	pH
GS-AP-MW-17V	2/20/2019 11:21	Temperature	15	C
GS-AP-MW-17V	2/20/2019 11:21	Turbidity	69.7	NTU
GS-AP-MW-17V	2/20/2019 11:26	Conductivity	579.4	uS/cm
GS-AP-MW-17V	2/20/2019 11:26	DO	10.78	mg/L
GS-AP-MW-17V	2/20/2019 11:26	Depth to Water Detail	105.25	ft
GS-AP-MW-17V	2/20/2019 11:26	Oxidation Reduction Potention	46.6	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 11:26	pH	7.92	pH
GS-AP-MW-17V	2/20/2019 11:26	Temperature	15.01	C
GS-AP-MW-17V	2/20/2019 11:26	Turbidity	52.3	NTU
GS-AP-MW-17V	2/20/2019 11:31	Conductivity	575.1	uS/cm
GS-AP-MW-17V	2/20/2019 11:31	DO	10.45	mg/L
GS-AP-MW-17V	2/20/2019 11:31	Depth to Water Detail	105.57	ft
GS-AP-MW-17V	2/20/2019 11:31	Oxidation Reduction Potention	43.3	mv
GS-AP-MW-17V	2/20/2019 11:31	pH	7.88	pH
GS-AP-MW-17V	2/20/2019 11:31	Temperature	15.03	C
GS-AP-MW-17V	2/20/2019 11:31	Turbidity	52	NTU
GS-AP-MW-17V	2/20/2019 11:36	Conductivity	567.8	uS/cm
GS-AP-MW-17V	2/20/2019 11:36	DO	10.33	mg/L
GS-AP-MW-17V	2/20/2019 11:36	Depth to Water Detail	105.8	ft
GS-AP-MW-17V	2/20/2019 11:36	Oxidation Reduction Potention	39.6	mv
GS-AP-MW-17V	2/20/2019 11:36	pH	7.87	pH
GS-AP-MW-17V	2/20/2019 11:36	Temperature	15.14	C
GS-AP-MW-17V	2/20/2019 11:36	Turbidity	42.3	NTU
GS-AP-MW-17V	2/20/2019 11:41	Conductivity	563.7	uS/cm
GS-AP-MW-17V	2/20/2019 11:41	DO	10.55	mg/L
GS-AP-MW-17V	2/20/2019 11:41	Depth to Water Detail	105.75	ft
GS-AP-MW-17V	2/20/2019 11:41	Oxidation Reduction Potention	33.1	mv
GS-AP-MW-17V	2/20/2019 11:41	pH	7.85	pH
GS-AP-MW-17V	2/20/2019 11:41	Temperature	15.2	C
GS-AP-MW-17V	2/20/2019 11:41	Turbidity	38.1	NTU
GS-AP-MW-17V	2/20/2019 11:46	Conductivity	573	uS/cm
GS-AP-MW-17V	2/20/2019 11:46	DO	9.98	mg/L
GS-AP-MW-17V	2/20/2019 11:46	Depth to Water Detail	106.2	ft
GS-AP-MW-17V	2/20/2019 11:46	Oxidation Reduction Potention	31.3	mv
GS-AP-MW-17V	2/20/2019 11:46	pH	7.85	pH
GS-AP-MW-17V	2/20/2019 11:46	Temperature	15.1	C
GS-AP-MW-17V	2/20/2019 11:46	Turbidity	39.7	NTU
GS-AP-MW-17V	2/20/2019 11:51	Conductivity	571.5	uS/cm
GS-AP-MW-17V	2/20/2019 11:51	DO	9.73	mg/L
GS-AP-MW-17V	2/20/2019 11:51	Depth to Water Detail	106.2	ft
GS-AP-MW-17V	2/20/2019 11:51	Oxidation Reduction Potention	27.8	mv
GS-AP-MW-17V	2/20/2019 11:51	pH	7.84	pH
GS-AP-MW-17V	2/20/2019 11:51	Temperature	15.14	C
GS-AP-MW-17V	2/20/2019 11:51	Turbidity	43.3	NTU
GS-AP-MW-17V	2/20/2019 11:56	Conductivity	567.4	uS/cm
GS-AP-MW-17V	2/20/2019 11:56	DO	9.63	mg/L
GS-AP-MW-17V	2/20/2019 11:56	Depth to Water Detail	106.55	ft
GS-AP-MW-17V	2/20/2019 11:56	Oxidation Reduction Potention	23.7	mv
GS-AP-MW-17V	2/20/2019 11:56	pH	7.84	pH
GS-AP-MW-17V	2/20/2019 11:56	Temperature	15.28	C
GS-AP-MW-17V	2/20/2019 11:56	Turbidity	29.5	NTU
GS-AP-MW-17V	2/20/2019 12:01	Conductivity	564.8	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 12:01	DO	9.4	mg/L
GS-AP-MW-17V	2/20/2019 12:01	Depth to Water Detail	106.75	ft
GS-AP-MW-17V	2/20/2019 12:01	Oxidation Reduction Potention	14.5	mv
GS-AP-MW-17V	2/20/2019 12:01	pH	7.81	pH
GS-AP-MW-17V	2/20/2019 12:01	Temperature	15.23	C
GS-AP-MW-17V	2/20/2019 12:01	Turbidity	33	NTU
GS-AP-MW-17V	2/20/2019 12:06	Conductivity	563.2	uS/cm
GS-AP-MW-17V	2/20/2019 12:06	DO	9.32	mg/L
GS-AP-MW-17V	2/20/2019 12:06	Depth to Water Detail	106.9	ft
GS-AP-MW-17V	2/20/2019 12:06	Oxidation Reduction Potention	13.5	mv
GS-AP-MW-17V	2/20/2019 12:06	pH	7.82	pH
GS-AP-MW-17V	2/20/2019 12:06	Temperature	15.36	C
GS-AP-MW-17V	2/20/2019 12:06	Turbidity	27.7	NTU
GS-AP-MW-17V	2/20/2019 12:11	Conductivity	560.2	uS/cm
GS-AP-MW-17V	2/20/2019 12:11	DO	9.28	mg/L
GS-AP-MW-17V	2/20/2019 12:11	Depth to Water Detail	106.95	ft
GS-AP-MW-17V	2/20/2019 12:11	Oxidation Reduction Potention	9.4	mv
GS-AP-MW-17V	2/20/2019 12:11	pH	7.81	pH
GS-AP-MW-17V	2/20/2019 12:11	Temperature	15.41	C
GS-AP-MW-17V	2/20/2019 12:11	Turbidity	26.9	NTU
GS-AP-MW-17V	2/20/2019 12:16	Conductivity	557.5	uS/cm
GS-AP-MW-17V	2/20/2019 12:16	DO	9.11	mg/L
GS-AP-MW-17V	2/20/2019 12:16	Depth to Water Detail	107.2	ft
GS-AP-MW-17V	2/20/2019 12:16	Oxidation Reduction Potention	5.4	mv
GS-AP-MW-17V	2/20/2019 12:16	pH	7.79	pH
GS-AP-MW-17V	2/20/2019 12:16	Temperature	15.31	C
GS-AP-MW-17V	2/20/2019 12:16	Turbidity	24.8	NTU
GS-AP-MW-17V	2/20/2019 12:21	Conductivity	557	uS/cm
GS-AP-MW-17V	2/20/2019 12:21	DO	9.05	mg/L
GS-AP-MW-17V	2/20/2019 12:21	Depth to Water Detail	107.06	ft
GS-AP-MW-17V	2/20/2019 12:21	Oxidation Reduction Potention	-2.4	mv
GS-AP-MW-17V	2/20/2019 12:21	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 12:21	Temperature	15.28	C
GS-AP-MW-17V	2/20/2019 12:21	Turbidity	21.5	NTU
GS-AP-MW-17V	2/20/2019 12:26	Conductivity	554	uS/cm
GS-AP-MW-17V	2/20/2019 12:26	DO	9.02	mg/L
GS-AP-MW-17V	2/20/2019 12:26	Depth to Water Detail	107.05	ft
GS-AP-MW-17V	2/20/2019 12:26	Oxidation Reduction Potention	-5.6	mv
GS-AP-MW-17V	2/20/2019 12:26	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 12:26	Temperature	15.24	C
GS-AP-MW-17V	2/20/2019 12:26	Turbidity	19.4	NTU
GS-AP-MW-17V	2/20/2019 12:32	Conductivity	555.4	uS/cm
GS-AP-MW-17V	2/20/2019 12:32	DO	8.94	mg/L
GS-AP-MW-17V	2/20/2019 12:32	Depth to Water Detail	107.25	ft
GS-AP-MW-17V	2/20/2019 12:32	Oxidation Reduction Potention	-6.3	mv
GS-AP-MW-17V	2/20/2019 12:32	pH	7.78	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 12:32	Temperature	15.01	C
GS-AP-MW-17V	2/20/2019 12:32	Turbidity	20.2	NTU
GS-AP-MW-17V	2/20/2019 12:37	Conductivity	557	uS/cm
GS-AP-MW-17V	2/20/2019 12:37	DO	8.88	mg/L
GS-AP-MW-17V	2/20/2019 12:37	Depth to Water Detail	108	ft
GS-AP-MW-17V	2/20/2019 12:37	Oxidation Reduction Potention	-9.3	mv
GS-AP-MW-17V	2/20/2019 12:37	pH	7.76	pH
GS-AP-MW-17V	2/20/2019 12:37	Temperature	14.98	C
GS-AP-MW-17V	2/20/2019 12:37	Turbidity	21.1	NTU
GS-AP-MW-17V	2/20/2019 12:42	Conductivity	558.7	uS/cm
GS-AP-MW-17V	2/20/2019 12:42	DO	8.83	mg/L
GS-AP-MW-17V	2/20/2019 12:42	Depth to Water Detail	107.85	ft
GS-AP-MW-17V	2/20/2019 12:42	Oxidation Reduction Potention	-6	mv
GS-AP-MW-17V	2/20/2019 12:42	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 12:42	Temperature	15.19	C
GS-AP-MW-17V	2/20/2019 12:42	Turbidity	20.3	NTU
GS-AP-MW-17V	2/20/2019 12:47	Conductivity	555.7	uS/cm
GS-AP-MW-17V	2/20/2019 12:47	DO	8.8	mg/L
GS-AP-MW-17V	2/20/2019 12:47	Depth to Water Detail	107.5	ft
GS-AP-MW-17V	2/20/2019 12:47	Oxidation Reduction Potention	-8.7	mv
GS-AP-MW-17V	2/20/2019 12:47	pH	7.77	pH
GS-AP-MW-17V	2/20/2019 12:47	Temperature	15.09	C
GS-AP-MW-17V	2/20/2019 12:47	Turbidity	17.2	NTU
GS-AP-MW-17V	2/20/2019 12:52	Conductivity	554.5	uS/cm
GS-AP-MW-17V	2/20/2019 12:52	DO	8.89	mg/L
GS-AP-MW-17V	2/20/2019 12:52	Depth to Water Detail	107.2	ft
GS-AP-MW-17V	2/20/2019 12:52	Oxidation Reduction Potention	-9.6	mv
GS-AP-MW-17V	2/20/2019 12:52	pH	7.77	pH
GS-AP-MW-17V	2/20/2019 12:52	Temperature	15.03	C
GS-AP-MW-17V	2/20/2019 12:52	Turbidity	16.3	NTU
GS-AP-MW-17V	2/20/2019 12:57	Conductivity	555.4	uS/cm
GS-AP-MW-17V	2/20/2019 12:57	DO	8.74	mg/L
GS-AP-MW-17V	2/20/2019 12:57	Depth to Water Detail	107.6	ft
GS-AP-MW-17V	2/20/2019 12:57	Oxidation Reduction Potention	-11.7	mv
GS-AP-MW-17V	2/20/2019 12:57	pH	7.77	pH
GS-AP-MW-17V	2/20/2019 12:57	Temperature	15.14	C
GS-AP-MW-17V	2/20/2019 12:57	Turbidity	15.6	NTU
GS-AP-MW-17V	2/20/2019 13:02	Conductivity	556.4	uS/cm
GS-AP-MW-17V	2/20/2019 13:02	DO	8.7	mg/L
GS-AP-MW-17V	2/20/2019 13:02	Depth to Water Detail	107.25	ft
GS-AP-MW-17V	2/20/2019 13:02	Oxidation Reduction Potention	-9.9	mv
GS-AP-MW-17V	2/20/2019 13:02	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:02	Temperature	15.2	C
GS-AP-MW-17V	2/20/2019 13:02	Turbidity	15.8	NTU
GS-AP-MW-17V	2/20/2019 13:07	Conductivity	560	uS/cm
GS-AP-MW-17V	2/20/2019 13:07	DO	8.91	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 13:07	Depth to Water Detail	107	ft
GS-AP-MW-17V	2/20/2019 13:07	Oxidation Reduction Potention	-8	mv
GS-AP-MW-17V	2/20/2019 13:07	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:07	Temperature	15.14	C
GS-AP-MW-17V	2/20/2019 13:07	Turbidity	16.7	NTU
GS-AP-MW-17V	2/20/2019 13:12	Conductivity	559.2	uS/cm
GS-AP-MW-17V	2/20/2019 13:12	DO	8.87	mg/L
GS-AP-MW-17V	2/20/2019 13:12	Depth to Water Detail	106.82	ft
GS-AP-MW-17V	2/20/2019 13:12	Oxidation Reduction Potention	-7	mv
GS-AP-MW-17V	2/20/2019 13:12	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:12	Temperature	15.28	C
GS-AP-MW-17V	2/20/2019 13:12	Turbidity	14.7	NTU
GS-AP-MW-17V	2/20/2019 13:17	Conductivity	564.5	uS/cm
GS-AP-MW-17V	2/20/2019 13:17	DO	9.13	mg/L
GS-AP-MW-17V	2/20/2019 13:17	Depth to Water Detail	106.8	ft
GS-AP-MW-17V	2/20/2019 13:17	Oxidation Reduction Potention	-11.5	mv
GS-AP-MW-17V	2/20/2019 13:17	pH	7.77	pH
GS-AP-MW-17V	2/20/2019 13:17	Temperature	15.28	C
GS-AP-MW-17V	2/20/2019 13:17	Turbidity	15.3	NTU
GS-AP-MW-17V	2/20/2019 13:22	Conductivity	564.7	uS/cm
GS-AP-MW-17V	2/20/2019 13:22	DO	8.99	mg/L
GS-AP-MW-17V	2/20/2019 13:22	Depth to Water Detail	107.35	ft
GS-AP-MW-17V	2/20/2019 13:22	Oxidation Reduction Potention	-9.8	mv
GS-AP-MW-17V	2/20/2019 13:22	pH	7.77	pH
GS-AP-MW-17V	2/20/2019 13:22	Temperature	15.32	C
GS-AP-MW-17V	2/20/2019 13:22	Turbidity	13.9	NTU
GS-AP-MW-17V	2/20/2019 13:27	Conductivity	562.3	uS/cm
GS-AP-MW-17V	2/20/2019 13:27	DO	8.91	mg/L
GS-AP-MW-17V	2/20/2019 13:27	Depth to Water Detail	106.8	ft
GS-AP-MW-17V	2/20/2019 13:27	Oxidation Reduction Potention	-5.7	mv
GS-AP-MW-17V	2/20/2019 13:27	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:27	Temperature	15.54	C
GS-AP-MW-17V	2/20/2019 13:27	Turbidity	18.7	NTU
GS-AP-MW-17V	2/20/2019 13:32	Conductivity	558.7	uS/cm
GS-AP-MW-17V	2/20/2019 13:32	DO	8.82	mg/L
GS-AP-MW-17V	2/20/2019 13:32	Depth to Water Detail	106.8	ft
GS-AP-MW-17V	2/20/2019 13:32	Oxidation Reduction Potention	-7.5	mv
GS-AP-MW-17V	2/20/2019 13:32	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:32	Temperature	15.46	C
GS-AP-MW-17V	2/20/2019 13:32	Turbidity	13.8	NTU
GS-AP-MW-17V	2/20/2019 13:37	Conductivity	558	uS/cm
GS-AP-MW-17V	2/20/2019 13:37	DO	8.69	mg/L
GS-AP-MW-17V	2/20/2019 13:37	Depth to Water Detail	106.8	ft
GS-AP-MW-17V	2/20/2019 13:37	Oxidation Reduction Potention	-12.5	mv
GS-AP-MW-17V	2/20/2019 13:37	pH	7.77	pH
GS-AP-MW-17V	2/20/2019 13:37	Temperature	15.63	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 13:37	Turbidity	11.3	NTU
GS-AP-MW-17V	2/20/2019 13:42	Conductivity	554.9	uS/cm
GS-AP-MW-17V	2/20/2019 13:42	DO	8.57	mg/L
GS-AP-MW-17V	2/20/2019 13:42	Depth to Water Detail	106.95	ft
GS-AP-MW-17V	2/20/2019 13:42	Oxidation Reduction Potention	-10.2	mv
GS-AP-MW-17V	2/20/2019 13:42	pH	7.76	pH
GS-AP-MW-17V	2/20/2019 13:42	Temperature	15.62	C
GS-AP-MW-17V	2/20/2019 13:42	Turbidity	13	NTU
GS-AP-MW-17V	2/20/2019 13:47	Conductivity	558.4	uS/cm
GS-AP-MW-17V	2/20/2019 13:47	DO	8.63	mg/L
GS-AP-MW-17V	2/20/2019 13:47	Depth to Water Detail	107.55	ft
GS-AP-MW-17V	2/20/2019 13:47	Oxidation Reduction Potention	-5.6	mv
GS-AP-MW-17V	2/20/2019 13:47	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:47	Temperature	15.64	C
GS-AP-MW-17V	2/20/2019 13:47	Turbidity	14	NTU
GS-AP-MW-17V	2/20/2019 13:52	Conductivity	557.4	uS/cm
GS-AP-MW-17V	2/20/2019 13:52	DO	8.61	mg/L
GS-AP-MW-17V	2/20/2019 13:52	Depth to Water Detail	107.2	ft
GS-AP-MW-17V	2/20/2019 13:52	Oxidation Reduction Potention	0.8	mv
GS-AP-MW-17V	2/20/2019 13:52	pH	7.81	pH
GS-AP-MW-17V	2/20/2019 13:52	Temperature	15.48	C
GS-AP-MW-17V	2/20/2019 13:52	Turbidity	12.9	NTU
GS-AP-MW-17V	2/20/2019 13:57	Conductivity	559.4	uS/cm
GS-AP-MW-17V	2/20/2019 13:57	DO	8.7	mg/L
GS-AP-MW-17V	2/20/2019 13:57	Depth to Water Detail	107.82	ft
GS-AP-MW-17V	2/20/2019 13:57	Oxidation Reduction Potention	-2.5	mv
GS-AP-MW-17V	2/20/2019 13:57	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 13:57	Temperature	15.48	C
GS-AP-MW-17V	2/20/2019 13:57	Turbidity	12.7	NTU
GS-AP-MW-17V	2/20/2019 14:02	Conductivity	560.7	uS/cm
GS-AP-MW-17V	2/20/2019 14:02	DO	8.61	mg/L
GS-AP-MW-17V	2/20/2019 14:02	Depth to Water Detail	107.8	ft
GS-AP-MW-17V	2/20/2019 14:02	Oxidation Reduction Potention	-7.1	mv
GS-AP-MW-17V	2/20/2019 14:02	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 14:02	Temperature	15.55	C
GS-AP-MW-17V	2/20/2019 14:02	Turbidity	13.2	NTU
GS-AP-MW-17V	2/20/2019 14:07	Conductivity	559.1	uS/cm
GS-AP-MW-17V	2/20/2019 14:07	DO	8.57	mg/L
GS-AP-MW-17V	2/20/2019 14:07	Depth to Water Detail	108	ft
GS-AP-MW-17V	2/20/2019 14:07	Oxidation Reduction Potention	-4.1	mv
GS-AP-MW-17V	2/20/2019 14:07	pH	7.79	pH
GS-AP-MW-17V	2/20/2019 14:07	Temperature	15.6	C
GS-AP-MW-17V	2/20/2019 14:07	Turbidity	12.1	NTU
GS-AP-MW-17V	2/20/2019 14:12	Conductivity	560.6	uS/cm
GS-AP-MW-17V	2/20/2019 14:12	DO	8.62	mg/L
GS-AP-MW-17V	2/20/2019 14:12	Depth to Water Detail	107.5	ft

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Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	2/20/2019 14:12	Oxidation Reduction Potention	-6.8	mv
GS-AP-MW-17V	2/20/2019 14:12	pH	7.8	pH
GS-AP-MW-17V	2/20/2019 14:12	Temperature	15.54	C
GS-AP-MW-17V	2/20/2019 14:12	Turbidity	11.4	NTU
GS-AP-MW-17V	2/20/2019 14:17	Conductivity	559	uS/cm
GS-AP-MW-17V	2/20/2019 14:17	DO	8.56	mg/L
GS-AP-MW-17V	2/20/2019 14:17	Depth to Water Detail	107.75	ft
GS-AP-MW-17V	2/20/2019 14:17	Oxidation Reduction Potention	-10	mv
GS-AP-MW-17V	2/20/2019 14:17	pH	7.78	pH
GS-AP-MW-17V	2/20/2019 14:17	Temperature	15.55	C
GS-AP-MW-17V	2/20/2019 14:17	Turbidity	11.11	NTU
GS-AP-MW-17V	2/20/2019 14:22	Conductivity	557.5	uS/cm
GS-AP-MW-17V	2/20/2019 14:22	DO	8.52	mg/L
GS-AP-MW-17V	2/20/2019 14:22	Depth to Water Detail	107.63	ft
GS-AP-MW-17V	2/20/2019 14:22	Oxidation Reduction Potention	-17.2	mv
GS-AP-MW-17V	2/20/2019 14:22	pH	7.76	pH
GS-AP-MW-17V	2/20/2019 14:22	Temperature	15.62	C
GS-AP-MW-17V	2/20/2019 14:22	Turbidity	9.68	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18V	2/26/2019 13:12	Conductivity	400.5	uS/cm
GS-AP-MW-18V	2/26/2019 13:12	DO	0.84	mg/L
GS-AP-MW-18V	2/26/2019 13:12	Depth to Water Detail	112.71	ft
GS-AP-MW-18V	2/26/2019 13:12	Oxidation Reduction Potention	-145.9	mv
GS-AP-MW-18V	2/26/2019 13:12	pH	7.89	pH
GS-AP-MW-18V	2/26/2019 13:12	Temperature	17.12	C
GS-AP-MW-18V	2/26/2019 13:12	Turbidity	17.3	NTU
GS-AP-MW-18V	2/26/2019 13:17	Conductivity	400.6	uS/cm
GS-AP-MW-18V	2/26/2019 13:17	DO	1.2	mg/L
GS-AP-MW-18V	2/26/2019 13:17	Depth to Water Detail	113.23	ft
GS-AP-MW-18V	2/26/2019 13:17	Oxidation Reduction Potention	-139.9	mv
GS-AP-MW-18V	2/26/2019 13:17	pH	7.89	pH
GS-AP-MW-18V	2/26/2019 13:17	Temperature	17.01	C
GS-AP-MW-18V	2/26/2019 13:17	Turbidity	13.2	NTU
GS-AP-MW-18V	2/26/2019 13:22	Conductivity	400.2	uS/cm
GS-AP-MW-18V	2/26/2019 13:22	DO	1.55	mg/L
GS-AP-MW-18V	2/26/2019 13:22	Depth to Water Detail	113.66	ft
GS-AP-MW-18V	2/26/2019 13:22	Oxidation Reduction Potention	-131.8	mv
GS-AP-MW-18V	2/26/2019 13:22	pH	7.89	pH
GS-AP-MW-18V	2/26/2019 13:22	Temperature	16.85	C
GS-AP-MW-18V	2/26/2019 13:22	Turbidity	12	NTU
GS-AP-MW-18V	2/26/2019 13:27	Conductivity	400	uS/cm
GS-AP-MW-18V	2/26/2019 13:27	DO	1.88	mg/L
GS-AP-MW-18V	2/26/2019 13:27	Depth to Water Detail	114.05	ft
GS-AP-MW-18V	2/26/2019 13:27	Oxidation Reduction Potention	-125.2	mv
GS-AP-MW-18V	2/26/2019 13:27	pH	7.88	pH
GS-AP-MW-18V	2/26/2019 13:27	Temperature	16.76	C
GS-AP-MW-18V	2/26/2019 13:27	Turbidity	11.1	NTU
GS-AP-MW-18V	2/26/2019 13:32	Conductivity	399.5	uS/cm
GS-AP-MW-18V	2/26/2019 13:32	DO	2.19	mg/L
GS-AP-MW-18V	2/26/2019 13:32	Depth to Water Detail	114.44	ft
GS-AP-MW-18V	2/26/2019 13:32	Oxidation Reduction Potention	-118.6	mv
GS-AP-MW-18V	2/26/2019 13:32	pH	7.88	pH
GS-AP-MW-18V	2/26/2019 13:32	Temperature	16.88	C
GS-AP-MW-18V	2/26/2019 13:32	Turbidity	11.35	NTU
GS-AP-MW-18V	2/26/2019 13:37	Conductivity	398.7	uS/cm
GS-AP-MW-18V	2/26/2019 13:37	DO	2.44	mg/L
GS-AP-MW-18V	2/26/2019 13:37	Depth to Water Detail	114.82	ft
GS-AP-MW-18V	2/26/2019 13:37	Oxidation Reduction Potention	-112.5	mv
GS-AP-MW-18V	2/26/2019 13:37	pH	7.87	pH
GS-AP-MW-18V	2/26/2019 13:37	Temperature	16.94	C
GS-AP-MW-18V	2/26/2019 13:37	Turbidity	10.62	NTU
GS-AP-MW-18V	2/26/2019 13:42	Conductivity	398.6	uS/cm
GS-AP-MW-18V	2/26/2019 13:42	DO	2.65	mg/L
GS-AP-MW-18V	2/26/2019 13:42	Depth to Water Detail	115.1	ft
GS-AP-MW-18V	2/26/2019 13:42	Oxidation Reduction Potention	-107.8	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18V	2/26/2019 13:42	pH	7.87	pH
GS-AP-MW-18V	2/26/2019 13:42	Temperature	16.88	C
GS-AP-MW-18V	2/26/2019 13:42	Turbidity	9.84	NTU
GS-AP-MW-18V	2/26/2019 13:47	Conductivity	398	uS/cm
GS-AP-MW-18V	2/26/2019 13:47	DO	2.85	mg/L
GS-AP-MW-18V	2/26/2019 13:47	Depth to Water Detail	115.42	ft
GS-AP-MW-18V	2/26/2019 13:47	Oxidation Reduction Potention	-104.3	mv
GS-AP-MW-18V	2/26/2019 13:47	pH	7.85	pH
GS-AP-MW-18V	2/26/2019 13:47	Temperature	16.93	C
GS-AP-MW-18V	2/26/2019 13:47	Turbidity	9.67	NTU
GS-AP-MW-18V	2/26/2019 13:52	Conductivity	398.2	uS/cm
GS-AP-MW-18V	2/26/2019 13:52	DO	3.03	mg/L
GS-AP-MW-18V	2/26/2019 13:52	Depth to Water Detail	115.78	ft
GS-AP-MW-18V	2/26/2019 13:52	Oxidation Reduction Potention	-101.4	mv
GS-AP-MW-18V	2/26/2019 13:52	pH	7.85	pH
GS-AP-MW-18V	2/26/2019 13:52	Temperature	17.2	C
GS-AP-MW-18V	2/26/2019 13:52	Turbidity	9.93	NTU
GS-AP-MW-18V	2/26/2019 13:57	Conductivity	397.6	uS/cm
GS-AP-MW-18V	2/26/2019 13:57	DO	3.16	mg/L
GS-AP-MW-18V	2/26/2019 13:57	Depth to Water Detail	116.04	ft
GS-AP-MW-18V	2/26/2019 13:57	Oxidation Reduction Potention	-98.4	mv
GS-AP-MW-18V	2/26/2019 13:57	pH	7.84	pH
GS-AP-MW-18V	2/26/2019 13:57	Temperature	17.19	C
GS-AP-MW-18V	2/26/2019 13:57	Turbidity	9.48	NTU
GS-AP-MW-18V	2/26/2019 14:02	Conductivity	397.3	uS/cm
GS-AP-MW-18V	2/26/2019 14:02	DO	3.31	mg/L
GS-AP-MW-18V	2/26/2019 14:02	Depth to Water Detail	116.32	ft
GS-AP-MW-18V	2/26/2019 14:02	Oxidation Reduction Potention	-96.8	mv
GS-AP-MW-18V	2/26/2019 14:02	pH	7.83	pH
GS-AP-MW-18V	2/26/2019 14:02	Temperature	17.32	C
GS-AP-MW-18V	2/26/2019 14:02	Turbidity	8.51	NTU
GS-AP-MW-18V	2/26/2019 14:07	Conductivity	397.2	uS/cm
GS-AP-MW-18V	2/26/2019 14:07	DO	3.4	mg/L
GS-AP-MW-18V	2/26/2019 14:07	Depth to Water Detail	116.58	ft
GS-AP-MW-18V	2/26/2019 14:07	Oxidation Reduction Potention	-95.2	mv
GS-AP-MW-18V	2/26/2019 14:07	pH	7.82	pH
GS-AP-MW-18V	2/26/2019 14:07	Temperature	17.12	C
GS-AP-MW-18V	2/26/2019 14:07	Turbidity	7.74	NTU
GS-AP-MW-18V	2/26/2019 14:12	Conductivity	397.7	uS/cm
GS-AP-MW-18V	2/26/2019 14:12	DO	3.48	mg/L
GS-AP-MW-18V	2/26/2019 14:12	Depth to Water Detail	116.81	ft
GS-AP-MW-18V	2/26/2019 14:12	Oxidation Reduction Potention	-95	mv
GS-AP-MW-18V	2/26/2019 14:12	pH	7.82	pH
GS-AP-MW-18V	2/26/2019 14:12	Temperature	17.3	C
GS-AP-MW-18V	2/26/2019 14:12	Turbidity	7.98	NTU
GS-AP-MW-18V	2/26/2019 14:17	Conductivity	397.5	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18V	2/26/2019 14:17	DO	3.56	mg/L
GS-AP-MW-18V	2/26/2019 14:17	Depth to Water Detail	117.04	ft
GS-AP-MW-18V	2/26/2019 14:17	Oxidation Reduction Potention	-94.1	mv
GS-AP-MW-18V	2/26/2019 14:17	pH	7.81	pH
GS-AP-MW-18V	2/26/2019 14:17	Temperature	17.59	C
GS-AP-MW-18V	2/26/2019 14:17	Turbidity	7.19	NTU
GS-AP-MW-18V	2/26/2019 14:22	Conductivity	396.1	uS/cm
GS-AP-MW-18V	2/26/2019 14:22	DO	3.59	mg/L
GS-AP-MW-18V	2/26/2019 14:22	Depth to Water Detail	117.27	ft
GS-AP-MW-18V	2/26/2019 14:22	Oxidation Reduction Potention	-93.9	mv
GS-AP-MW-18V	2/26/2019 14:22	pH	7.8	pH
GS-AP-MW-18V	2/26/2019 14:22	Temperature	17.72	C
GS-AP-MW-18V	2/26/2019 14:22	Turbidity	7.05	NTU
GS-AP-MW-18V	2/26/2019 14:27	Conductivity	396.4	uS/cm
GS-AP-MW-18V	2/26/2019 14:27	DO	3.61	mg/L
GS-AP-MW-18V	2/26/2019 14:27	Depth to Water Detail	117.5	ft
GS-AP-MW-18V	2/26/2019 14:27	Oxidation Reduction Potention	-94.4	mv
GS-AP-MW-18V	2/26/2019 14:27	pH	7.8	pH
GS-AP-MW-18V	2/26/2019 14:27	Temperature	17.54	C
GS-AP-MW-18V	2/26/2019 14:27	Turbidity	7.09	NTU
GS-AP-MW-18V	2/26/2019 14:32	Conductivity	396.6	uS/cm
GS-AP-MW-18V	2/26/2019 14:32	DO	3.66	mg/L
GS-AP-MW-18V	2/26/2019 14:32	Depth to Water Detail	117.75	ft
GS-AP-MW-18V	2/26/2019 14:32	Oxidation Reduction Potention	-94.4	mv
GS-AP-MW-18V	2/26/2019 14:32	pH	7.8	pH
GS-AP-MW-18V	2/26/2019 14:32	Temperature	17.41	C
GS-AP-MW-18V	2/26/2019 14:32	Turbidity	6.83	NTU
GS-AP-MW-18V	2/26/2019 14:37	Conductivity	397.1	uS/cm
GS-AP-MW-18V	2/26/2019 14:37	DO	3.68	mg/L
GS-AP-MW-18V	2/26/2019 14:37	Depth to Water Detail	117.92	ft
GS-AP-MW-18V	2/26/2019 14:37	Oxidation Reduction Potention	-95.2	mv
GS-AP-MW-18V	2/26/2019 14:37	pH	7.79	pH
GS-AP-MW-18V	2/26/2019 14:37	Temperature	17.28	C
GS-AP-MW-18V	2/26/2019 14:37	Turbidity	6.47	NTU
GS-AP-MW-18V	2/26/2019 14:42	Conductivity	397.3	uS/cm
GS-AP-MW-18V	2/26/2019 14:42	DO	3.68	mg/L
GS-AP-MW-18V	2/26/2019 14:42	Depth to Water Detail	118.17	ft
GS-AP-MW-18V	2/26/2019 14:42	Oxidation Reduction Potention	-95.6	mv
GS-AP-MW-18V	2/26/2019 14:42	pH	7.79	pH
GS-AP-MW-18V	2/26/2019 14:42	Temperature	17.14	C
GS-AP-MW-18V	2/26/2019 14:42	Turbidity	6.53	NTU
GS-AP-MW-18V	2/26/2019 14:47	Conductivity	397.1	uS/cm
GS-AP-MW-18V	2/26/2019 14:47	DO	3.65	mg/L
GS-AP-MW-18V	2/26/2019 14:47	Depth to Water Detail	118.38	ft
GS-AP-MW-18V	2/26/2019 14:47	Oxidation Reduction Potention	-96.2	mv
GS-AP-MW-18V	2/26/2019 14:47	pH	7.79	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18V	2/26/2019 14:47	Temperature	17.03	C
GS-AP-MW-18V	2/26/2019 14:47	Turbidity	7.54	NTU
GS-AP-MW-18V	2/26/2019 14:52	Conductivity	397.4	uS/cm
GS-AP-MW-18V	2/26/2019 14:52	DO	3.6	mg/L
GS-AP-MW-18V	2/26/2019 14:52	Depth to Water Detail	118.54	ft
GS-AP-MW-18V	2/26/2019 14:52	Oxidation Reduction Potention	-96.4	mv
GS-AP-MW-18V	2/26/2019 14:52	pH	7.79	pH
GS-AP-MW-18V	2/26/2019 14:52	Temperature	17.05	C
GS-AP-MW-18V	2/26/2019 14:52	Turbidity	7.18	NTU
GS-AP-MW-18V	2/26/2019 14:57	Conductivity	397.4	uS/cm
GS-AP-MW-18V	2/26/2019 14:57	DO	3.56	mg/L
GS-AP-MW-18V	2/26/2019 14:57	Depth to Water Detail	118.72	ft
GS-AP-MW-18V	2/26/2019 14:57	Oxidation Reduction Potention	-97.2	mv
GS-AP-MW-18V	2/26/2019 14:57	pH	7.78	pH
GS-AP-MW-18V	2/26/2019 14:57	Temperature	17.18	C
GS-AP-MW-18V	2/26/2019 14:57	Turbidity	7.36	NTU
GS-AP-MW-18V	2/26/2019 15:02	Conductivity	397	uS/cm
GS-AP-MW-18V	2/26/2019 15:02	DO	3.47	mg/L
GS-AP-MW-18V	2/26/2019 15:02	Depth to Water Detail	118.92	ft
GS-AP-MW-18V	2/26/2019 15:02	Oxidation Reduction Potention	-98.5	mv
GS-AP-MW-18V	2/26/2019 15:02	pH	7.79	pH
GS-AP-MW-18V	2/26/2019 15:02	Temperature	17.36	C
GS-AP-MW-18V	2/26/2019 15:02	Turbidity	6.6	NTU
GS-AP-MW-18V	2/26/2019 15:07	Conductivity	397.1	uS/cm
GS-AP-MW-18V	2/26/2019 15:07	DO	3.42	mg/L
GS-AP-MW-18V	2/26/2019 15:07	Depth to Water Detail	119.06	ft
GS-AP-MW-18V	2/26/2019 15:07	Oxidation Reduction Potention	-99.1	mv
GS-AP-MW-18V	2/26/2019 15:07	pH	7.78	pH
GS-AP-MW-18V	2/26/2019 15:07	Temperature	17.45	C
GS-AP-MW-18V	2/26/2019 15:07	Turbidity	6.32	NTU
GS-AP-MW-18V	2/26/2019 15:12	Conductivity	396.9	uS/cm
GS-AP-MW-18V	2/26/2019 15:12	DO	3.3	mg/L
GS-AP-MW-18V	2/26/2019 15:12	Depth to Water Detail	119.2	ft
GS-AP-MW-18V	2/26/2019 15:12	Oxidation Reduction Potention	-100.1	mv
GS-AP-MW-18V	2/26/2019 15:12	pH	7.79	pH
GS-AP-MW-18V	2/26/2019 15:12	Temperature	17.32	C
GS-AP-MW-18V	2/26/2019 15:12	Turbidity	6.59	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-24H	2/26/2019 9:51	Conductivity	435.3	uS/cm
GS-AP-MW-24H	2/26/2019 9:51	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 9:51	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 9:51	Oxidation Reduction Potention	-74	mv
GS-AP-MW-24H	2/26/2019 9:51	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 9:51	Temperature	17.32	C
GS-AP-MW-24H	2/26/2019 9:51	Turbidity	16.4	NTU
GS-AP-MW-24H	2/26/2019 9:56	Conductivity	435.4	uS/cm
GS-AP-MW-24H	2/26/2019 9:56	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 9:56	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 9:56	Oxidation Reduction Potention	-72.8	mv
GS-AP-MW-24H	2/26/2019 9:56	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 9:56	Temperature	17.37	C
GS-AP-MW-24H	2/26/2019 9:56	Turbidity	15.4	NTU
GS-AP-MW-24H	2/26/2019 10:06	Conductivity	434.4	uS/cm
GS-AP-MW-24H	2/26/2019 10:06	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:06	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:06	Oxidation Reduction Potention	-73.4	mv
GS-AP-MW-24H	2/26/2019 10:06	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:06	Temperature	17.41	C
GS-AP-MW-24H	2/26/2019 10:06	Turbidity	15.6	NTU
GS-AP-MW-24H	2/26/2019 10:11	Conductivity	434.2	uS/cm
GS-AP-MW-24H	2/26/2019 10:11	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:11	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:11	Oxidation Reduction Potention	-72.4	mv
GS-AP-MW-24H	2/26/2019 10:11	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:11	Temperature	17.46	C
GS-AP-MW-24H	2/26/2019 10:11	Turbidity	14.5	NTU
GS-AP-MW-24H	2/26/2019 10:16	Conductivity	433.9	uS/cm
GS-AP-MW-24H	2/26/2019 10:16	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:16	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:16	Oxidation Reduction Potention	-73.1	mv
GS-AP-MW-24H	2/26/2019 10:16	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:16	Temperature	17.51	C
GS-AP-MW-24H	2/26/2019 10:16	Turbidity	14.4	NTU
GS-AP-MW-24H	2/26/2019 10:21	Conductivity	433.4	uS/cm
GS-AP-MW-24H	2/26/2019 10:21	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:21	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:21	Oxidation Reduction Potention	-72.8	mv
GS-AP-MW-24H	2/26/2019 10:21	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:21	Temperature	17.51	C
GS-AP-MW-24H	2/26/2019 10:21	Turbidity	17.5	NTU
GS-AP-MW-24H	2/26/2019 10:26	Conductivity	433.6	uS/cm
GS-AP-MW-24H	2/26/2019 10:26	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:26	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:26	Oxidation Reduction Potention	-72.5	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-24H	2/26/2019 10:26	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:26	Temperature	17.52	C
GS-AP-MW-24H	2/26/2019 10:26	Turbidity	21.1	NTU
GS-AP-MW-24H	2/26/2019 10:31	Conductivity	433.4	uS/cm
GS-AP-MW-24H	2/26/2019 10:31	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:31	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:31	Oxidation Reduction Potention	-72.3	mv
GS-AP-MW-24H	2/26/2019 10:31	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:31	Temperature	17.51	C
GS-AP-MW-24H	2/26/2019 10:31	Turbidity	15.9	NTU
GS-AP-MW-24H	2/26/2019 10:36	Conductivity	433.4	uS/cm
GS-AP-MW-24H	2/26/2019 10:36	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:36	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:36	Oxidation Reduction Potention	-72.1	mv
GS-AP-MW-24H	2/26/2019 10:36	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:36	Temperature	17.5	C
GS-AP-MW-24H	2/26/2019 10:36	Turbidity	16.2	NTU
GS-AP-MW-24H	2/26/2019 10:41	Conductivity	433.8	uS/cm
GS-AP-MW-24H	2/26/2019 10:41	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:41	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:41	Oxidation Reduction Potention	-71.4	mv
GS-AP-MW-24H	2/26/2019 10:41	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:41	Temperature	17.48	C
GS-AP-MW-24H	2/26/2019 10:41	Turbidity	15.1	NTU
GS-AP-MW-24H	2/26/2019 10:46	Conductivity	433.6	uS/cm
GS-AP-MW-24H	2/26/2019 10:46	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:46	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:46	Oxidation Reduction Potention	-71.1	mv
GS-AP-MW-24H	2/26/2019 10:46	pH	7.03	pH
GS-AP-MW-24H	2/26/2019 10:46	Temperature	17.5	C
GS-AP-MW-24H	2/26/2019 10:46	Turbidity	15.9	NTU
GS-AP-MW-24H	2/26/2019 10:51	Conductivity	433.1	uS/cm
GS-AP-MW-24H	2/26/2019 10:51	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:51	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:51	Oxidation Reduction Potention	-71.2	mv
GS-AP-MW-24H	2/26/2019 10:51	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:51	Temperature	17.53	C
GS-AP-MW-24H	2/26/2019 10:51	Turbidity	17.8	NTU
GS-AP-MW-24H	2/26/2019 10:56	Conductivity	433.2	uS/cm
GS-AP-MW-24H	2/26/2019 10:56	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 10:56	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 10:56	Oxidation Reduction Potention	-71	mv
GS-AP-MW-24H	2/26/2019 10:56	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 10:56	Temperature	17.59	C
GS-AP-MW-24H	2/26/2019 10:56	Turbidity	12.7	NTU
GS-AP-MW-24H	2/26/2019 11:01	Conductivity	432.9	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-24H	2/26/2019 11:01	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:01	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:01	Oxidation Reduction Potention	-70.6	mv
GS-AP-MW-24H	2/26/2019 11:01	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:01	Temperature	17.61	C
GS-AP-MW-24H	2/26/2019 11:01	Turbidity	11.6	NTU
GS-AP-MW-24H	2/26/2019 11:06	Conductivity	433	uS/cm
GS-AP-MW-24H	2/26/2019 11:06	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:06	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:06	Oxidation Reduction Potention	-70.3	mv
GS-AP-MW-24H	2/26/2019 11:06	pH	7.03	pH
GS-AP-MW-24H	2/26/2019 11:06	Temperature	17.59	C
GS-AP-MW-24H	2/26/2019 11:06	Turbidity	12.9	NTU
GS-AP-MW-24H	2/26/2019 11:11	Conductivity	433	uS/cm
GS-AP-MW-24H	2/26/2019 11:11	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:11	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:11	Oxidation Reduction Potention	-70.2	mv
GS-AP-MW-24H	2/26/2019 11:11	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:11	Temperature	17.58	C
GS-AP-MW-24H	2/26/2019 11:11	Turbidity	12.9	NTU
GS-AP-MW-24H	2/26/2019 11:16	Conductivity	433.2	uS/cm
GS-AP-MW-24H	2/26/2019 11:16	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:16	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:16	Oxidation Reduction Potention	-70	mv
GS-AP-MW-24H	2/26/2019 11:16	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:16	Temperature	17.63	C
GS-AP-MW-24H	2/26/2019 11:16	Turbidity	11.8	NTU
GS-AP-MW-24H	2/26/2019 11:21	Conductivity	432.9	uS/cm
GS-AP-MW-24H	2/26/2019 11:21	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:21	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:21	Oxidation Reduction Potention	-69.3	mv
GS-AP-MW-24H	2/26/2019 11:21	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:21	Temperature	17.64	C
GS-AP-MW-24H	2/26/2019 11:21	Turbidity	12.2	NTU
GS-AP-MW-24H	2/26/2019 11:26	Conductivity	433.2	uS/cm
GS-AP-MW-24H	2/26/2019 11:26	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:26	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:26	Oxidation Reduction Potention	-69.4	mv
GS-AP-MW-24H	2/26/2019 11:26	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:26	Temperature	17.66	C
GS-AP-MW-24H	2/26/2019 11:26	Turbidity	13.3	NTU
GS-AP-MW-24H	2/26/2019 11:31	Conductivity	432.8	uS/cm
GS-AP-MW-24H	2/26/2019 11:31	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:31	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:31	Oxidation Reduction Potention	-69.4	mv
GS-AP-MW-24H	2/26/2019 11:31	pH	7.04	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-24H	2/26/2019 11:31	Temperature	17.68	C
GS-AP-MW-24H	2/26/2019 11:31	Turbidity	12	NTU
GS-AP-MW-24H	2/26/2019 11:36	Conductivity	433	uS/cm
GS-AP-MW-24H	2/26/2019 11:36	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:36	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:36	Oxidation Reduction Potention	-69.2	mv
GS-AP-MW-24H	2/26/2019 11:36	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:36	Temperature	17.68	C
GS-AP-MW-24H	2/26/2019 11:36	Turbidity	11.7	NTU
GS-AP-MW-24H	2/26/2019 11:41	Conductivity	433.3	uS/cm
GS-AP-MW-24H	2/26/2019 11:41	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:41	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:41	Oxidation Reduction Potention	-68.8	mv
GS-AP-MW-24H	2/26/2019 11:41	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:41	Temperature	17.64	C
GS-AP-MW-24H	2/26/2019 11:41	Turbidity	11.5	NTU
GS-AP-MW-24H	2/26/2019 11:46	Conductivity	433.1	uS/cm
GS-AP-MW-24H	2/26/2019 11:46	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:46	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:46	Oxidation Reduction Potention	-68.7	mv
GS-AP-MW-24H	2/26/2019 11:46	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:46	Temperature	17.65	C
GS-AP-MW-24H	2/26/2019 11:46	Turbidity	11.4	NTU
GS-AP-MW-24H	2/26/2019 11:51	Conductivity	433.1	uS/cm
GS-AP-MW-24H	2/26/2019 11:51	DO	0.02	mg/L
GS-AP-MW-24H	2/26/2019 11:51	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:51	Oxidation Reduction Potention	-68.6	mv
GS-AP-MW-24H	2/26/2019 11:51	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:51	Temperature	17.64	C
GS-AP-MW-24H	2/26/2019 11:51	Turbidity	10.8	NTU
GS-AP-MW-24H	2/26/2019 11:56	Conductivity	433.3	uS/cm
GS-AP-MW-24H	2/26/2019 11:56	DO	0.03	mg/L
GS-AP-MW-24H	2/26/2019 11:56	Depth to Water Detail	5.98	ft
GS-AP-MW-24H	2/26/2019 11:56	Oxidation Reduction Potention	-68.4	mv
GS-AP-MW-24H	2/26/2019 11:56	pH	7.04	pH
GS-AP-MW-24H	2/26/2019 11:56	Temperature	17.58	C
GS-AP-MW-24H	2/26/2019 11:56	Turbidity	9.78	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	2/27/2019 13:09	Conductivity	451.3	uS/cm
GS-AP-MW-26H	2/27/2019 13:09	DO	0.79	mg/L
GS-AP-MW-26H	2/27/2019 13:09	Depth to Water Detail	98.6	ft
GS-AP-MW-26H	2/27/2019 13:09	Oxidation Reduction Potention	-109.2	mv
GS-AP-MW-26H	2/27/2019 13:09	pH	7.32	pH
GS-AP-MW-26H	2/27/2019 13:09	Temperature	20.06	C
GS-AP-MW-26H	2/27/2019 13:09	Turbidity	86	NTU
GS-AP-MW-26H	2/27/2019 13:14	Conductivity	451	uS/cm
GS-AP-MW-26H	2/27/2019 13:14	DO	2.26	mg/L
GS-AP-MW-26H	2/27/2019 13:14	Depth to Water Detail	99.5	ft
GS-AP-MW-26H	2/27/2019 13:14	Oxidation Reduction Potention	-101.6	mv
GS-AP-MW-26H	2/27/2019 13:14	pH	7.31	pH
GS-AP-MW-26H	2/27/2019 13:14	Temperature	20	C
GS-AP-MW-26H	2/27/2019 13:14	Turbidity	94.1	NTU
GS-AP-MW-26H	2/27/2019 13:19	Conductivity	449.9	uS/cm
GS-AP-MW-26H	2/27/2019 13:19	DO	3.61	mg/L
GS-AP-MW-26H	2/27/2019 13:19	Depth to Water Detail	100.31	ft
GS-AP-MW-26H	2/27/2019 13:19	Oxidation Reduction Potention	-92.5	mv
GS-AP-MW-26H	2/27/2019 13:19	pH	7.3	pH
GS-AP-MW-26H	2/27/2019 13:19	Temperature	19.99	C
GS-AP-MW-26H	2/27/2019 13:19	Turbidity	71.7	NTU
GS-AP-MW-26H	2/27/2019 13:24	Conductivity	451.1	uS/cm
GS-AP-MW-26H	2/27/2019 13:24	DO	4.98	mg/L
GS-AP-MW-26H	2/27/2019 13:24	Depth to Water Detail	101.09	ft
GS-AP-MW-26H	2/27/2019 13:24	Oxidation Reduction Potention	-84	mv
GS-AP-MW-26H	2/27/2019 13:24	pH	7.3	pH
GS-AP-MW-26H	2/27/2019 13:24	Temperature	19.91	C
GS-AP-MW-26H	2/27/2019 13:24	Turbidity	60.7	NTU
GS-AP-MW-26H	2/27/2019 13:29	Conductivity	447.8	uS/cm
GS-AP-MW-26H	2/27/2019 13:29	DO	5.87	mg/L
GS-AP-MW-26H	2/27/2019 13:29	Depth to Water Detail	101.83	ft
GS-AP-MW-26H	2/27/2019 13:29	Oxidation Reduction Potention	-79.1	mv
GS-AP-MW-26H	2/27/2019 13:29	pH	7.3	pH
GS-AP-MW-26H	2/27/2019 13:29	Temperature	19.98	C
GS-AP-MW-26H	2/27/2019 13:29	Turbidity	49	NTU
GS-AP-MW-26H	2/27/2019 13:34	Conductivity	450.3	uS/cm
GS-AP-MW-26H	2/27/2019 13:34	DO	6.51	mg/L
GS-AP-MW-26H	2/27/2019 13:34	Depth to Water Detail	102.5	ft
GS-AP-MW-26H	2/27/2019 13:34	Oxidation Reduction Potention	-75.1	mv
GS-AP-MW-26H	2/27/2019 13:34	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 13:34	Temperature	19.88	C
GS-AP-MW-26H	2/27/2019 13:34	Turbidity	35.5	NTU
GS-AP-MW-26H	2/27/2019 13:39	Conductivity	449.3	uS/cm
GS-AP-MW-26H	2/27/2019 13:39	DO	6.82	mg/L
GS-AP-MW-26H	2/27/2019 13:39	Depth to Water Detail	103.13	ft
GS-AP-MW-26H	2/27/2019 13:39	Oxidation Reduction Potention	-72.8	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	2/27/2019 13:39	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 13:39	Temperature	20.02	C
GS-AP-MW-26H	2/27/2019 13:39	Turbidity	25.1	NTU
GS-AP-MW-26H	2/27/2019 13:44	Conductivity	447.6	uS/cm
GS-AP-MW-26H	2/27/2019 13:44	DO	7	mg/L
GS-AP-MW-26H	2/27/2019 13:44	Depth to Water Detail	103.66	ft
GS-AP-MW-26H	2/27/2019 13:44	Oxidation Reduction Potention	-70.7	mv
GS-AP-MW-26H	2/27/2019 13:44	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 13:44	Temperature	19.96	C
GS-AP-MW-26H	2/27/2019 13:44	Turbidity	22.2	NTU
GS-AP-MW-26H	2/27/2019 13:49	Conductivity	449.8	uS/cm
GS-AP-MW-26H	2/27/2019 13:49	DO	7.22	mg/L
GS-AP-MW-26H	2/27/2019 13:49	Depth to Water Detail	104.19	ft
GS-AP-MW-26H	2/27/2019 13:49	Oxidation Reduction Potention	-69.2	mv
GS-AP-MW-26H	2/27/2019 13:49	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 13:49	Temperature	19.99	C
GS-AP-MW-26H	2/27/2019 13:49	Turbidity	24.7	NTU
GS-AP-MW-26H	2/27/2019 13:54	Conductivity	450.5	uS/cm
GS-AP-MW-26H	2/27/2019 13:54	DO	7.27	mg/L
GS-AP-MW-26H	2/27/2019 13:54	Depth to Water Detail	104.62	ft
GS-AP-MW-26H	2/27/2019 13:54	Oxidation Reduction Potention	-67.6	mv
GS-AP-MW-26H	2/27/2019 13:54	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 13:54	Temperature	19.72	C
GS-AP-MW-26H	2/27/2019 13:54	Turbidity	21.4	NTU
GS-AP-MW-26H	2/27/2019 13:59	Conductivity	450.1	uS/cm
GS-AP-MW-26H	2/27/2019 13:59	DO	7.37	mg/L
GS-AP-MW-26H	2/27/2019 13:59	Depth to Water Detail	105.15	ft
GS-AP-MW-26H	2/27/2019 13:59	Oxidation Reduction Potention	-66.6	mv
GS-AP-MW-26H	2/27/2019 13:59	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 13:59	Temperature	19.51	C
GS-AP-MW-26H	2/27/2019 13:59	Turbidity	19.5	NTU
GS-AP-MW-26H	2/27/2019 14:04	Conductivity	452.2	uS/cm
GS-AP-MW-26H	2/27/2019 14:04	DO	7.56	mg/L
GS-AP-MW-26H	2/27/2019 14:04	Depth to Water Detail	105.5	ft
GS-AP-MW-26H	2/27/2019 14:04	Oxidation Reduction Potention	-65.7	mv
GS-AP-MW-26H	2/27/2019 14:04	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 14:04	Temperature	19.37	C
GS-AP-MW-26H	2/27/2019 14:04	Turbidity	18.7	NTU
GS-AP-MW-26H	2/27/2019 14:09	Conductivity	451.5	uS/cm
GS-AP-MW-26H	2/27/2019 14:09	DO	7.61	mg/L
GS-AP-MW-26H	2/27/2019 14:09	Depth to Water Detail	105.96	ft
GS-AP-MW-26H	2/27/2019 14:09	Oxidation Reduction Potention	-64.3	mv
GS-AP-MW-26H	2/27/2019 14:09	pH	7.29	pH
GS-AP-MW-26H	2/27/2019 14:09	Temperature	19.36	C
GS-AP-MW-26H	2/27/2019 14:09	Turbidity	17.8	NTU
GS-AP-MW-26H	2/27/2019 14:14	Conductivity	452.6	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	2/27/2019 14:14	DO	7.56	mg/L
GS-AP-MW-26H	2/27/2019 14:14	Depth to Water Detail	106.35	ft
GS-AP-MW-26H	2/27/2019 14:14	Oxidation Reduction Potention	-63.6	mv
GS-AP-MW-26H	2/27/2019 14:14	pH	7.28	pH
GS-AP-MW-26H	2/27/2019 14:14	Temperature	19.33	C
GS-AP-MW-26H	2/27/2019 14:14	Turbidity	17.2	NTU
GS-AP-MW-26H	2/27/2019 14:19	Conductivity	450.5	uS/cm
GS-AP-MW-26H	2/27/2019 14:19	DO	7.48	mg/L
GS-AP-MW-26H	2/27/2019 14:19	Depth to Water Detail	106.69	ft
GS-AP-MW-26H	2/27/2019 14:19	Oxidation Reduction Potention	-62.7	mv
GS-AP-MW-26H	2/27/2019 14:19	pH	7.28	pH
GS-AP-MW-26H	2/27/2019 14:19	Temperature	19.41	C
GS-AP-MW-26H	2/27/2019 14:19	Turbidity	17.1	NTU
GS-AP-MW-26H	2/27/2019 14:24	Conductivity	449.8	uS/cm
GS-AP-MW-26H	2/27/2019 14:24	DO	7.41	mg/L
GS-AP-MW-26H	2/27/2019 14:24	Depth to Water Detail	107.03	ft
GS-AP-MW-26H	2/27/2019 14:24	Oxidation Reduction Potention	-62.5	mv
GS-AP-MW-26H	2/27/2019 14:24	pH	7.28	pH
GS-AP-MW-26H	2/27/2019 14:24	Temperature	19.28	C
GS-AP-MW-26H	2/27/2019 14:24	Turbidity	17.3	NTU
GS-AP-MW-26H	2/27/2019 14:29	Conductivity	450.7	uS/cm
GS-AP-MW-26H	2/27/2019 14:29	DO	7.38	mg/L
GS-AP-MW-26H	2/27/2019 14:29	Depth to Water Detail	107.32	ft
GS-AP-MW-26H	2/27/2019 14:29	Oxidation Reduction Potention	-62.4	mv
GS-AP-MW-26H	2/27/2019 14:29	pH	7.27	pH
GS-AP-MW-26H	2/27/2019 14:29	Temperature	19.44	C
GS-AP-MW-26H	2/27/2019 14:29	Turbidity	16.4	NTU
GS-AP-MW-26H	2/27/2019 14:34	Conductivity	448.4	uS/cm
GS-AP-MW-26H	2/27/2019 14:34	DO	7.28	mg/L
GS-AP-MW-26H	2/27/2019 14:34	Depth to Water Detail	107.6	ft
GS-AP-MW-26H	2/27/2019 14:34	Oxidation Reduction Potention	-61.4	mv
GS-AP-MW-26H	2/27/2019 14:34	pH	7.27	pH
GS-AP-MW-26H	2/27/2019 14:34	Temperature	19.32	C
GS-AP-MW-26H	2/27/2019 14:34	Turbidity	14.9	NTU
GS-AP-MW-26H	2/27/2019 14:39	Conductivity	449.1	uS/cm
GS-AP-MW-26H	2/27/2019 14:39	DO	7.4	mg/L
GS-AP-MW-26H	2/27/2019 14:39	Depth to Water Detail	107.87	ft
GS-AP-MW-26H	2/27/2019 14:39	Oxidation Reduction Potention	-60.9	mv
GS-AP-MW-26H	2/27/2019 14:39	pH	7.27	pH
GS-AP-MW-26H	2/27/2019 14:39	Temperature	19.24	C
GS-AP-MW-26H	2/27/2019 14:39	Turbidity	15.2	NTU
GS-AP-MW-26H	2/27/2019 14:44	Conductivity	449.2	uS/cm
GS-AP-MW-26H	2/27/2019 14:44	DO	7.29	mg/L
GS-AP-MW-26H	2/27/2019 14:44	Depth to Water Detail	108.12	ft
GS-AP-MW-26H	2/27/2019 14:44	Oxidation Reduction Potention	-60.7	mv
GS-AP-MW-26H	2/27/2019 14:44	pH	7.27	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	2/27/2019 14:44	Temperature	19.28	C
GS-AP-MW-26H	2/27/2019 14:44	Turbidity	16.2	NTU
GS-AP-MW-26H	2/27/2019 14:49	Conductivity	450.3	uS/cm
GS-AP-MW-26H	2/27/2019 14:49	DO	7.21	mg/L
GS-AP-MW-26H	2/27/2019 14:49	Depth to Water Detail	108.38	ft
GS-AP-MW-26H	2/27/2019 14:49	Oxidation Reduction Potention	-60.2	mv
GS-AP-MW-26H	2/27/2019 14:49	pH	7.27	pH
GS-AP-MW-26H	2/27/2019 14:49	Temperature	19.26	C
GS-AP-MW-26H	2/27/2019 14:49	Turbidity	14.3	NTU
GS-AP-MW-26H	2/27/2019 14:55	Conductivity	449.1	uS/cm
GS-AP-MW-26H	2/27/2019 14:55	DO	7.28	mg/L
GS-AP-MW-26H	2/27/2019 14:55	Depth to Water Detail	108.58	ft
GS-AP-MW-26H	2/27/2019 14:55	Oxidation Reduction Potention	-60.2	mv
GS-AP-MW-26H	2/27/2019 14:55	pH	7.26	pH
GS-AP-MW-26H	2/27/2019 14:55	Temperature	19.26	C
GS-AP-MW-26H	2/27/2019 14:55	Turbidity	19.8	NTU
GS-AP-MW-26H	2/27/2019 15:00	Conductivity	448.5	uS/cm
GS-AP-MW-26H	2/27/2019 15:00	DO	7.32	mg/L
GS-AP-MW-26H	2/27/2019 15:00	Depth to Water Detail	108.71	ft
GS-AP-MW-26H	2/27/2019 15:00	Oxidation Reduction Potention	-59.3	mv
GS-AP-MW-26H	2/27/2019 15:00	pH	7.27	pH
GS-AP-MW-26H	2/27/2019 15:00	Temperature	19.11	C
GS-AP-MW-26H	2/27/2019 15:00	Turbidity	18.6	NTU
GS-AP-MW-26H	2/27/2019 15:05	Conductivity	448.4	uS/cm
GS-AP-MW-26H	2/27/2019 15:05	DO	7.25	mg/L
GS-AP-MW-26H	2/27/2019 15:05	Depth to Water Detail	108.97	ft
GS-AP-MW-26H	2/27/2019 15:05	Oxidation Reduction Potention	-59.1	mv
GS-AP-MW-26H	2/27/2019 15:05	pH	7.26	pH
GS-AP-MW-26H	2/27/2019 15:05	Temperature	19.12	C
GS-AP-MW-26H	2/27/2019 15:05	Turbidity	16.1	NTU
GS-AP-MW-26H	2/27/2019 15:10	Conductivity	448.7	uS/cm
GS-AP-MW-26H	2/27/2019 15:10	DO	7.58	mg/L
GS-AP-MW-26H	2/27/2019 15:10	Depth to Water Detail	109.1	ft
GS-AP-MW-26H	2/27/2019 15:10	Oxidation Reduction Potention	-58.9	mv
GS-AP-MW-26H	2/27/2019 15:10	pH	7.26	pH
GS-AP-MW-26H	2/27/2019 15:10	Temperature	19.25	C
GS-AP-MW-26H	2/27/2019 15:10	Turbidity	14.5	NTU
GS-AP-MW-26H	2/27/2019 15:15	Conductivity	450.6	uS/cm
GS-AP-MW-26H	2/27/2019 15:15	DO	7.96	mg/L
GS-AP-MW-26H	2/27/2019 15:15	Depth to Water Detail	109.28	ft
GS-AP-MW-26H	2/27/2019 15:15	Oxidation Reduction Potention	-57.6	mv
GS-AP-MW-26H	2/27/2019 15:15	pH	7.26	pH
GS-AP-MW-26H	2/27/2019 15:15	Temperature	19.06	C
GS-AP-MW-26H	2/27/2019 15:15	Turbidity	14.9	NTU
GS-AP-MW-26H	2/27/2019 15:20	Conductivity	448.5	uS/cm
GS-AP-MW-26H	2/27/2019 15:20	DO	7.88	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	2/27/2019 15:20	Depth to Water Detail	109.47	ft
GS-AP-MW-26H	2/27/2019 15:20	Oxidation Reduction Potention	-57.3	mv
GS-AP-MW-26H	2/27/2019 15:20	pH	7.27	pH
GS-AP-MW-26H	2/27/2019 15:20	Temperature	18.99	C
GS-AP-MW-26H	2/27/2019 15:20	Turbidity	13.1	NTU
GS-AP-MW-26H	2/27/2019 15:25	Conductivity	448.9	uS/cm
GS-AP-MW-26H	2/27/2019 15:25	DO	7.58	mg/L
GS-AP-MW-26H	2/27/2019 15:25	Depth to Water Detail	109.62	ft
GS-AP-MW-26H	2/27/2019 15:25	Oxidation Reduction Potention	-57.5	mv
GS-AP-MW-26H	2/27/2019 15:25	pH	7.26	pH
GS-AP-MW-26H	2/27/2019 15:25	Temperature	18.86	C
GS-AP-MW-26H	2/27/2019 15:25	Turbidity	12.3	NTU
GS-AP-MW-26H	2/27/2019 15:30	Conductivity	449.7	uS/cm
GS-AP-MW-26H	2/27/2019 15:30	DO	7.45	mg/L
GS-AP-MW-26H	2/27/2019 15:30	Depth to Water Detail	109.69	ft
GS-AP-MW-26H	2/27/2019 15:30	Oxidation Reduction Potention	-57.8	mv
GS-AP-MW-26H	2/27/2019 15:30	pH	7.25	pH
GS-AP-MW-26H	2/27/2019 15:30	Temperature	18.84	C
GS-AP-MW-26H	2/27/2019 15:30	Turbidity	11.9	NTU
GS-AP-MW-26H	2/27/2019 15:35	Conductivity	448.9	uS/cm
GS-AP-MW-26H	2/27/2019 15:35	DO	7.26	mg/L
GS-AP-MW-26H	2/27/2019 15:35	Depth to Water Detail	109.85	ft
GS-AP-MW-26H	2/27/2019 15:35	Oxidation Reduction Potention	-57.6	mv
GS-AP-MW-26H	2/27/2019 15:35	pH	7.25	pH
GS-AP-MW-26H	2/27/2019 15:35	Temperature	18.75	C
GS-AP-MW-26H	2/27/2019 15:35	Turbidity	10.7	NTU
GS-AP-MW-26H	2/27/2019 15:40	Conductivity	448.2	uS/cm
GS-AP-MW-26H	2/27/2019 15:40	DO	7.18	mg/L
GS-AP-MW-26H	2/27/2019 15:40	Depth to Water Detail	109.98	ft
GS-AP-MW-26H	2/27/2019 15:40	Oxidation Reduction Potention	-57.6	mv
GS-AP-MW-26H	2/27/2019 15:40	pH	7.25	pH
GS-AP-MW-26H	2/27/2019 15:40	Temperature	18.79	C
GS-AP-MW-26H	2/27/2019 15:40	Turbidity	10.23	NTU
GS-AP-MW-26H	2/27/2019 15:45	Conductivity	449	uS/cm
GS-AP-MW-26H	2/27/2019 15:45	DO	7.21	mg/L
GS-AP-MW-26H	2/27/2019 15:45	Depth to Water Detail	110.03	ft
GS-AP-MW-26H	2/27/2019 15:45	Oxidation Reduction Potention	-57.1	mv
GS-AP-MW-26H	2/27/2019 15:45	pH	7.25	pH
GS-AP-MW-26H	2/27/2019 15:45	Temperature	18.65	C
GS-AP-MW-26H	2/27/2019 15:45	Turbidity	9.95	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	2/27/2019 8:49	Conductivity	632.3	uS/cm
GS-AP-MW-29H	2/27/2019 8:49	DO	0.49	mg/L
GS-AP-MW-29H	2/27/2019 8:49	Depth to Water Detail	78.89	ft
GS-AP-MW-29H	2/27/2019 8:49	Oxidation Reduction Potention	27.3	mv
GS-AP-MW-29H	2/27/2019 8:49	pH	7.82	pH
GS-AP-MW-29H	2/27/2019 8:49	Temperature	16.69	C
GS-AP-MW-29H	2/27/2019 8:49	Turbidity	103.2	NTU
GS-AP-MW-29H	2/27/2019 8:54	Conductivity	632.5	uS/cm
GS-AP-MW-29H	2/27/2019 8:54	DO	0.38	mg/L
GS-AP-MW-29H	2/27/2019 8:54	Depth to Water Detail	78.98	ft
GS-AP-MW-29H	2/27/2019 8:54	Oxidation Reduction Potention	11.3	mv
GS-AP-MW-29H	2/27/2019 8:54	pH	7.84	pH
GS-AP-MW-29H	2/27/2019 8:54	Temperature	16.69	C
GS-AP-MW-29H	2/27/2019 8:54	Turbidity	104.7	NTU
GS-AP-MW-29H	2/27/2019 8:59	Conductivity	631.5	uS/cm
GS-AP-MW-29H	2/27/2019 8:59	DO	0.33	mg/L
GS-AP-MW-29H	2/27/2019 8:59	Depth to Water Detail	79.03	ft
GS-AP-MW-29H	2/27/2019 8:59	Oxidation Reduction Potention	-2.4	mv
GS-AP-MW-29H	2/27/2019 8:59	pH	7.86	pH
GS-AP-MW-29H	2/27/2019 8:59	Temperature	16.74	C
GS-AP-MW-29H	2/27/2019 8:59	Turbidity	96	NTU
GS-AP-MW-29H	2/27/2019 9:04	Conductivity	626.1	uS/cm
GS-AP-MW-29H	2/27/2019 9:04	DO	0.25	mg/L
GS-AP-MW-29H	2/27/2019 9:04	Depth to Water Detail	79.74	ft
GS-AP-MW-29H	2/27/2019 9:04	Oxidation Reduction Potention	-37.1	mv
GS-AP-MW-29H	2/27/2019 9:04	pH	7.87	pH
GS-AP-MW-29H	2/27/2019 9:04	Temperature	16.92	C
GS-AP-MW-29H	2/27/2019 9:04	Turbidity	89.3	NTU
GS-AP-MW-29H	2/27/2019 9:09	Conductivity	624.3	uS/cm
GS-AP-MW-29H	2/27/2019 9:09	DO	0.17	mg/L
GS-AP-MW-29H	2/27/2019 9:09	Depth to Water Detail	80.32	ft
GS-AP-MW-29H	2/27/2019 9:09	Oxidation Reduction Potention	-67	mv
GS-AP-MW-29H	2/27/2019 9:09	pH	7.91	pH
GS-AP-MW-29H	2/27/2019 9:09	Temperature	16.94	C
GS-AP-MW-29H	2/27/2019 9:09	Turbidity	72.3	NTU
GS-AP-MW-29H	2/27/2019 9:14	Conductivity	622.3	uS/cm
GS-AP-MW-29H	2/27/2019 9:14	DO	0.15	mg/L
GS-AP-MW-29H	2/27/2019 9:14	Depth to Water Detail	80.66	ft
GS-AP-MW-29H	2/27/2019 9:14	Oxidation Reduction Potention	-90.3	mv
GS-AP-MW-29H	2/27/2019 9:14	pH	7.93	pH
GS-AP-MW-29H	2/27/2019 9:14	Temperature	16.94	C
GS-AP-MW-29H	2/27/2019 9:14	Turbidity	56.5	NTU
GS-AP-MW-29H	2/27/2019 9:19	Conductivity	623.6	uS/cm
GS-AP-MW-29H	2/27/2019 9:19	DO	0.14	mg/L
GS-AP-MW-29H	2/27/2019 9:19	Depth to Water Detail	80.92	ft
GS-AP-MW-29H	2/27/2019 9:19	Oxidation Reduction Potention	-104.5	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	2/27/2019 9:19	pH	7.94	pH
GS-AP-MW-29H	2/27/2019 9:19	Temperature	16.94	C
GS-AP-MW-29H	2/27/2019 9:19	Turbidity	52.7	NTU
GS-AP-MW-29H	2/27/2019 9:24	Conductivity	622.6	uS/cm
GS-AP-MW-29H	2/27/2019 9:24	DO	0.14	mg/L
GS-AP-MW-29H	2/27/2019 9:24	Depth to Water Detail	81.07	ft
GS-AP-MW-29H	2/27/2019 9:24	Oxidation Reduction Potention	-115.6	mv
GS-AP-MW-29H	2/27/2019 9:24	pH	7.96	pH
GS-AP-MW-29H	2/27/2019 9:24	Temperature	16.97	C
GS-AP-MW-29H	2/27/2019 9:24	Turbidity	40.2	NTU
GS-AP-MW-29H	2/27/2019 9:29	Conductivity	623.4	uS/cm
GS-AP-MW-29H	2/27/2019 9:29	DO	0.13	mg/L
GS-AP-MW-29H	2/27/2019 9:29	Depth to Water Detail	81.2	ft
GS-AP-MW-29H	2/27/2019 9:29	Oxidation Reduction Potention	-123.5	mv
GS-AP-MW-29H	2/27/2019 9:29	pH	7.95	pH
GS-AP-MW-29H	2/27/2019 9:29	Temperature	17.01	C
GS-AP-MW-29H	2/27/2019 9:29	Turbidity	37.5	NTU
GS-AP-MW-29H	2/27/2019 9:34	Conductivity	623.7	uS/cm
GS-AP-MW-29H	2/27/2019 9:34	DO	0.12	mg/L
GS-AP-MW-29H	2/27/2019 9:34	Depth to Water Detail	81.28	ft
GS-AP-MW-29H	2/27/2019 9:34	Oxidation Reduction Potention	-128.4	mv
GS-AP-MW-29H	2/27/2019 9:34	pH	7.95	pH
GS-AP-MW-29H	2/27/2019 9:34	Temperature	17.01	C
GS-AP-MW-29H	2/27/2019 9:34	Turbidity	40.9	NTU
GS-AP-MW-29H	2/27/2019 9:39	Conductivity	624.7	uS/cm
GS-AP-MW-29H	2/27/2019 9:39	DO	0.12	mg/L
GS-AP-MW-29H	2/27/2019 9:39	Depth to Water Detail	81.36	ft
GS-AP-MW-29H	2/27/2019 9:39	Oxidation Reduction Potention	-130.7	mv
GS-AP-MW-29H	2/27/2019 9:39	pH	7.96	pH
GS-AP-MW-29H	2/27/2019 9:39	Temperature	17.01	C
GS-AP-MW-29H	2/27/2019 9:39	Turbidity	42	NTU
GS-AP-MW-29H	2/27/2019 9:44	Conductivity	624.5	uS/cm
GS-AP-MW-29H	2/27/2019 9:44	DO	0.12	mg/L
GS-AP-MW-29H	2/27/2019 9:44	Depth to Water Detail	81.42	ft
GS-AP-MW-29H	2/27/2019 9:44	Oxidation Reduction Potention	-134.5	mv
GS-AP-MW-29H	2/27/2019 9:44	pH	7.96	pH
GS-AP-MW-29H	2/27/2019 9:44	Temperature	17.01	C
GS-AP-MW-29H	2/27/2019 9:44	Turbidity	29	NTU
GS-AP-MW-29H	2/27/2019 9:49	Conductivity	626.1	uS/cm
GS-AP-MW-29H	2/27/2019 9:49	DO	0.12	mg/L
GS-AP-MW-29H	2/27/2019 9:49	Depth to Water Detail	81.47	ft
GS-AP-MW-29H	2/27/2019 9:49	Oxidation Reduction Potention	-135.2	mv
GS-AP-MW-29H	2/27/2019 9:49	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 9:49	Temperature	17.01	C
GS-AP-MW-29H	2/27/2019 9:49	Turbidity	44	NTU
GS-AP-MW-29H	2/27/2019 9:54	Conductivity	626.1	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	2/27/2019 9:54	DO	0.11	mg/L
GS-AP-MW-29H	2/27/2019 9:54	Depth to Water Detail	81.51	ft
GS-AP-MW-29H	2/27/2019 9:54	Oxidation Reduction Potention	-134.2	mv
GS-AP-MW-29H	2/27/2019 9:54	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 9:54	Temperature	17.05	C
GS-AP-MW-29H	2/27/2019 9:54	Turbidity	33.8	NTU
GS-AP-MW-29H	2/27/2019 9:59	Conductivity	626.9	uS/cm
GS-AP-MW-29H	2/27/2019 9:59	DO	0.11	mg/L
GS-AP-MW-29H	2/27/2019 9:59	Depth to Water Detail	81.52	ft
GS-AP-MW-29H	2/27/2019 9:59	Oxidation Reduction Potention	-134	mv
GS-AP-MW-29H	2/27/2019 9:59	pH	7.96	pH
GS-AP-MW-29H	2/27/2019 9:59	Temperature	17.06	C
GS-AP-MW-29H	2/27/2019 9:59	Turbidity	30.6	NTU
GS-AP-MW-29H	2/27/2019 10:09	Conductivity	626.4	uS/cm
GS-AP-MW-29H	2/27/2019 10:09	DO	0.11	mg/L
GS-AP-MW-29H	2/27/2019 10:09	Depth to Water Detail	81.57	ft
GS-AP-MW-29H	2/27/2019 10:09	Oxidation Reduction Potention	-137.2	mv
GS-AP-MW-29H	2/27/2019 10:09	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 10:09	Temperature	17.11	C
GS-AP-MW-29H	2/27/2019 10:09	Turbidity	24.6	NTU
GS-AP-MW-29H	2/27/2019 10:14	Conductivity	623.4	uS/cm
GS-AP-MW-29H	2/27/2019 10:14	DO	0.11	mg/L
GS-AP-MW-29H	2/27/2019 10:14	Depth to Water Detail	81.57	ft
GS-AP-MW-29H	2/27/2019 10:14	Oxidation Reduction Potention	-138.2	mv
GS-AP-MW-29H	2/27/2019 10:14	pH	7.95	pH
GS-AP-MW-29H	2/27/2019 10:14	Temperature	17.14	C
GS-AP-MW-29H	2/27/2019 10:14	Turbidity	20.6	NTU
GS-AP-MW-29H	2/27/2019 10:19	Conductivity	626.4	uS/cm
GS-AP-MW-29H	2/27/2019 10:19	DO	0.11	mg/L
GS-AP-MW-29H	2/27/2019 10:19	Depth to Water Detail	81.57	ft
GS-AP-MW-29H	2/27/2019 10:19	Oxidation Reduction Potention	-140.4	mv
GS-AP-MW-29H	2/27/2019 10:19	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 10:19	Temperature	17.15	C
GS-AP-MW-29H	2/27/2019 10:19	Turbidity	23.9	NTU
GS-AP-MW-29H	2/27/2019 10:24	Conductivity	624.6	uS/cm
GS-AP-MW-29H	2/27/2019 10:24	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:24	Depth to Water Detail	81.62	ft
GS-AP-MW-29H	2/27/2019 10:24	Oxidation Reduction Potention	-139	mv
GS-AP-MW-29H	2/27/2019 10:24	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 10:24	Temperature	17.19	C
GS-AP-MW-29H	2/27/2019 10:24	Turbidity	21.7	NTU
GS-AP-MW-29H	2/27/2019 10:29	Conductivity	625.5	uS/cm
GS-AP-MW-29H	2/27/2019 10:29	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:29	Depth to Water Detail	81.62	ft
GS-AP-MW-29H	2/27/2019 10:29	Oxidation Reduction Potention	-140.2	mv
GS-AP-MW-29H	2/27/2019 10:29	pH	7.98	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	2/27/2019 10:29	Temperature	17.21	C
GS-AP-MW-29H	2/27/2019 10:29	Turbidity	27.2	NTU
GS-AP-MW-29H	2/27/2019 10:34	Conductivity	625.1	uS/cm
GS-AP-MW-29H	2/27/2019 10:34	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:34	Depth to Water Detail	81.67	ft
GS-AP-MW-29H	2/27/2019 10:34	Oxidation Reduction Potention	-139.9	mv
GS-AP-MW-29H	2/27/2019 10:34	pH	7.96	pH
GS-AP-MW-29H	2/27/2019 10:34	Temperature	17.23	C
GS-AP-MW-29H	2/27/2019 10:34	Turbidity	18.4	NTU
GS-AP-MW-29H	2/27/2019 10:39	Conductivity	625.4	uS/cm
GS-AP-MW-29H	2/27/2019 10:39	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:39	Depth to Water Detail	81.67	ft
GS-AP-MW-29H	2/27/2019 10:39	Oxidation Reduction Potention	-140.2	mv
GS-AP-MW-29H	2/27/2019 10:39	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 10:39	Temperature	17.26	C
GS-AP-MW-29H	2/27/2019 10:39	Turbidity	20	NTU
GS-AP-MW-29H	2/27/2019 10:44	Conductivity	625.8	uS/cm
GS-AP-MW-29H	2/27/2019 10:44	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:44	Depth to Water Detail	81.67	ft
GS-AP-MW-29H	2/27/2019 10:44	Oxidation Reduction Potention	-141.5	mv
GS-AP-MW-29H	2/27/2019 10:44	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 10:44	Temperature	17.27	C
GS-AP-MW-29H	2/27/2019 10:44	Turbidity	17	NTU
GS-AP-MW-29H	2/27/2019 10:49	Conductivity	625.1	uS/cm
GS-AP-MW-29H	2/27/2019 10:49	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:49	Depth to Water Detail	81.69	ft
GS-AP-MW-29H	2/27/2019 10:49	Oxidation Reduction Potention	-141	mv
GS-AP-MW-29H	2/27/2019 10:49	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 10:49	Temperature	17.27	C
GS-AP-MW-29H	2/27/2019 10:49	Turbidity	19.2	NTU
GS-AP-MW-29H	2/27/2019 10:54	Conductivity	626.5	uS/cm
GS-AP-MW-29H	2/27/2019 10:54	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:54	Depth to Water Detail	81.72	ft
GS-AP-MW-29H	2/27/2019 10:54	Oxidation Reduction Potention	-141.1	mv
GS-AP-MW-29H	2/27/2019 10:54	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 10:54	Temperature	17.28	C
GS-AP-MW-29H	2/27/2019 10:54	Turbidity	19.2	NTU
GS-AP-MW-29H	2/27/2019 10:59	Conductivity	626	uS/cm
GS-AP-MW-29H	2/27/2019 10:59	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 10:59	Depth to Water Detail	81.72	ft
GS-AP-MW-29H	2/27/2019 10:59	Oxidation Reduction Potention	-141.6	mv
GS-AP-MW-29H	2/27/2019 10:59	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 10:59	Temperature	17.29	C
GS-AP-MW-29H	2/27/2019 10:59	Turbidity	17	NTU
GS-AP-MW-29H	2/27/2019 11:04	Conductivity	624.4	uS/cm
GS-AP-MW-29H	2/27/2019 11:04	DO	0.09	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	2/27/2019 11:04	Depth to Water Detail	81.72	ft
GS-AP-MW-29H	2/27/2019 11:04	Oxidation Reduction Potention	-142.7	mv
GS-AP-MW-29H	2/27/2019 11:04	pH	7.97	pH
GS-AP-MW-29H	2/27/2019 11:04	Temperature	17.32	C
GS-AP-MW-29H	2/27/2019 11:04	Turbidity	17.7	NTU
GS-AP-MW-29H	2/27/2019 11:09	Conductivity	625.9	uS/cm
GS-AP-MW-29H	2/27/2019 11:09	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 11:09	Depth to Water Detail	81.73	ft
GS-AP-MW-29H	2/27/2019 11:09	Oxidation Reduction Potention	-144	mv
GS-AP-MW-29H	2/27/2019 11:09	pH	7.99	pH
GS-AP-MW-29H	2/27/2019 11:09	Temperature	17.32	C
GS-AP-MW-29H	2/27/2019 11:09	Turbidity	14.9	NTU
GS-AP-MW-29H	2/27/2019 11:14	Conductivity	625.4	uS/cm
GS-AP-MW-29H	2/27/2019 11:14	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:14	Depth to Water Detail	81.73	ft
GS-AP-MW-29H	2/27/2019 11:14	Oxidation Reduction Potention	-144.2	mv
GS-AP-MW-29H	2/27/2019 11:14	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 11:14	Temperature	17.36	C
GS-AP-MW-29H	2/27/2019 11:14	Turbidity	15	NTU
GS-AP-MW-29H	2/27/2019 11:19	Conductivity	624.2	uS/cm
GS-AP-MW-29H	2/27/2019 11:19	DO	0.1	mg/L
GS-AP-MW-29H	2/27/2019 11:19	Depth to Water Detail	81.74	ft
GS-AP-MW-29H	2/27/2019 11:19	Oxidation Reduction Potention	-143.7	mv
GS-AP-MW-29H	2/27/2019 11:19	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 11:19	Temperature	17.41	C
GS-AP-MW-29H	2/27/2019 11:19	Turbidity	15.5	NTU
GS-AP-MW-29H	2/27/2019 11:24	Conductivity	624.9	uS/cm
GS-AP-MW-29H	2/27/2019 11:24	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:24	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:24	Oxidation Reduction Potention	-145.1	mv
GS-AP-MW-29H	2/27/2019 11:24	pH	8	pH
GS-AP-MW-29H	2/27/2019 11:24	Temperature	17.53	C
GS-AP-MW-29H	2/27/2019 11:24	Turbidity	13.3	NTU
GS-AP-MW-29H	2/27/2019 11:29	Conductivity	621.9	uS/cm
GS-AP-MW-29H	2/27/2019 11:29	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:29	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:29	Oxidation Reduction Potention	-144.8	mv
GS-AP-MW-29H	2/27/2019 11:29	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 11:29	Temperature	17.68	C
GS-AP-MW-29H	2/27/2019 11:29	Turbidity	14.2	NTU
GS-AP-MW-29H	2/27/2019 11:34	Conductivity	621.4	uS/cm
GS-AP-MW-29H	2/27/2019 11:34	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:34	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:34	Oxidation Reduction Potention	-146.2	mv
GS-AP-MW-29H	2/27/2019 11:34	pH	7.99	pH
GS-AP-MW-29H	2/27/2019 11:34	Temperature	17.81	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	2/27/2019 11:34	Turbidity	14.4	NTU
GS-AP-MW-29H	2/27/2019 11:39	Conductivity	619.7	uS/cm
GS-AP-MW-29H	2/27/2019 11:39	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:39	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:39	Oxidation Reduction Potention	-146.4	mv
GS-AP-MW-29H	2/27/2019 11:39	pH	7.99	pH
GS-AP-MW-29H	2/27/2019 11:39	Temperature	17.91	C
GS-AP-MW-29H	2/27/2019 11:39	Turbidity	12.9	NTU
GS-AP-MW-29H	2/27/2019 11:45	Conductivity	621.2	uS/cm
GS-AP-MW-29H	2/27/2019 11:45	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:45	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:45	Oxidation Reduction Potention	-146.6	mv
GS-AP-MW-29H	2/27/2019 11:45	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 11:45	Temperature	17.95	C
GS-AP-MW-29H	2/27/2019 11:45	Turbidity	12.6	NTU
GS-AP-MW-29H	2/27/2019 11:50	Conductivity	620.3	uS/cm
GS-AP-MW-29H	2/27/2019 11:50	DO	0.09	mg/L
GS-AP-MW-29H	2/27/2019 11:50	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:50	Oxidation Reduction Potention	-146.8	mv
GS-AP-MW-29H	2/27/2019 11:50	pH	7.99	pH
GS-AP-MW-29H	2/27/2019 11:50	Temperature	17.99	C
GS-AP-MW-29H	2/27/2019 11:50	Turbidity	11.4	NTU
GS-AP-MW-29H	2/27/2019 11:55	Conductivity	621.2	uS/cm
GS-AP-MW-29H	2/27/2019 11:55	DO	0.08	mg/L
GS-AP-MW-29H	2/27/2019 11:55	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 11:55	Oxidation Reduction Potention	-148.2	mv
GS-AP-MW-29H	2/27/2019 11:55	pH	7.98	pH
GS-AP-MW-29H	2/27/2019 11:55	Temperature	17.99	C
GS-AP-MW-29H	2/27/2019 11:55	Turbidity	10.56	NTU
GS-AP-MW-29H	2/27/2019 12:00	Conductivity	620.3	uS/cm
GS-AP-MW-29H	2/27/2019 12:00	DO	0.08	mg/L
GS-AP-MW-29H	2/27/2019 12:00	Depth to Water Detail	81.75	ft
GS-AP-MW-29H	2/27/2019 12:00	Oxidation Reduction Potention	-150.1	mv
GS-AP-MW-29H	2/27/2019 12:00	pH	8.01	pH
GS-AP-MW-29H	2/27/2019 12:00	Temperature	18.03	C
GS-AP-MW-29H	2/27/2019 12:00	Turbidity	9.87	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	3/13/2019 11:30	Conductivity	545.8	uS/cm
GS-AP-MW-28H	3/13/2019 11:30	DO	2.49	mg/L
GS-AP-MW-28H	3/13/2019 11:30	Depth to Water Detail	155	ft
GS-AP-MW-28H	3/13/2019 11:30	Oxidation Reduction Potention	96.8	mv
GS-AP-MW-28H	3/13/2019 11:30	pH	8.19	pH
GS-AP-MW-28H	3/13/2019 11:30	Temperature	18.76	C
GS-AP-MW-28H	3/13/2019 11:30	Turbidity	46.3	NTU
GS-AP-MW-28H	3/13/2019 11:35	Conductivity	544.2	uS/cm
GS-AP-MW-28H	3/13/2019 11:35	DO	1.94	mg/L
GS-AP-MW-28H	3/13/2019 11:35	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 11:35	Oxidation Reduction Potention	75.1	mv
GS-AP-MW-28H	3/13/2019 11:35	pH	8.21	pH
GS-AP-MW-28H	3/13/2019 11:35	Temperature	18.86	C
GS-AP-MW-28H	3/13/2019 11:35	Turbidity	42.2	NTU
GS-AP-MW-28H	3/13/2019 11:40	Conductivity	547.5	uS/cm
GS-AP-MW-28H	3/13/2019 11:40	DO	1.69	mg/L
GS-AP-MW-28H	3/13/2019 11:40	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 11:40	Oxidation Reduction Potention	60	mv
GS-AP-MW-28H	3/13/2019 11:40	pH	8.23	pH
GS-AP-MW-28H	3/13/2019 11:40	Temperature	18.6	C
GS-AP-MW-28H	3/13/2019 11:40	Turbidity	37.6	NTU
GS-AP-MW-28H	3/13/2019 11:45	Conductivity	545.4	uS/cm
GS-AP-MW-28H	3/13/2019 11:45	DO	1.52	mg/L
GS-AP-MW-28H	3/13/2019 11:45	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 11:45	Oxidation Reduction Potention	54	mv
GS-AP-MW-28H	3/13/2019 11:45	pH	8.25	pH
GS-AP-MW-28H	3/13/2019 11:45	Temperature	18.78	C
GS-AP-MW-28H	3/13/2019 11:45	Turbidity	33.7	NTU
GS-AP-MW-28H	3/13/2019 11:50	Conductivity	547	uS/cm
GS-AP-MW-28H	3/13/2019 11:50	DO	1.43	mg/L
GS-AP-MW-28H	3/13/2019 11:50	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 11:50	Oxidation Reduction Potention	53.2	mv
GS-AP-MW-28H	3/13/2019 11:50	pH	8.26	pH
GS-AP-MW-28H	3/13/2019 11:50	Temperature	18.69	C
GS-AP-MW-28H	3/13/2019 11:50	Turbidity	34.1	NTU
GS-AP-MW-28H	3/13/2019 11:55	Conductivity	548.2	uS/cm
GS-AP-MW-28H	3/13/2019 11:55	DO	1.38	mg/L
GS-AP-MW-28H	3/13/2019 11:55	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 11:55	Oxidation Reduction Potention	51.6	mv
GS-AP-MW-28H	3/13/2019 11:55	pH	8.26	pH
GS-AP-MW-28H	3/13/2019 11:55	Temperature	18.88	C
GS-AP-MW-28H	3/13/2019 11:55	Turbidity	33	NTU
GS-AP-MW-28H	3/13/2019 12:00	Conductivity	550.4	uS/cm
GS-AP-MW-28H	3/13/2019 12:00	DO	1.36	mg/L
GS-AP-MW-28H	3/13/2019 12:00	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:00	Oxidation Reduction Potention	52.5	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	3/13/2019 12:00	pH	8.27	pH
GS-AP-MW-28H	3/13/2019 12:00	Temperature	18.95	C
GS-AP-MW-28H	3/13/2019 12:00	Turbidity	31.8	NTU
GS-AP-MW-28H	3/13/2019 12:05	Conductivity	552.2	uS/cm
GS-AP-MW-28H	3/13/2019 12:05	DO	1.35	mg/L
GS-AP-MW-28H	3/13/2019 12:05	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:05	Oxidation Reduction Potention	50.4	mv
GS-AP-MW-28H	3/13/2019 12:05	pH	8.28	pH
GS-AP-MW-28H	3/13/2019 12:05	Temperature	18.89	C
GS-AP-MW-28H	3/13/2019 12:05	Turbidity	28.7	NTU
GS-AP-MW-28H	3/13/2019 12:10	Conductivity	555	uS/cm
GS-AP-MW-28H	3/13/2019 12:10	DO	1.27	mg/L
GS-AP-MW-28H	3/13/2019 12:10	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:10	Oxidation Reduction Potention	50.4	mv
GS-AP-MW-28H	3/13/2019 12:10	pH	8.28	pH
GS-AP-MW-28H	3/13/2019 12:10	Temperature	19.03	C
GS-AP-MW-28H	3/13/2019 12:10	Turbidity	29.1	NTU
GS-AP-MW-28H	3/13/2019 12:15	Conductivity	557.1	uS/cm
GS-AP-MW-28H	3/13/2019 12:15	DO	1.25	mg/L
GS-AP-MW-28H	3/13/2019 12:15	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:15	Oxidation Reduction Potention	50.5	mv
GS-AP-MW-28H	3/13/2019 12:15	pH	8.28	pH
GS-AP-MW-28H	3/13/2019 12:15	Temperature	18.99	C
GS-AP-MW-28H	3/13/2019 12:15	Turbidity	28.1	NTU
GS-AP-MW-28H	3/13/2019 12:20	Conductivity	554.8	uS/cm
GS-AP-MW-28H	3/13/2019 12:20	DO	1.23	mg/L
GS-AP-MW-28H	3/13/2019 12:20	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:20	Oxidation Reduction Potention	51.1	mv
GS-AP-MW-28H	3/13/2019 12:20	pH	8.28	pH
GS-AP-MW-28H	3/13/2019 12:20	Temperature	18.99	C
GS-AP-MW-28H	3/13/2019 12:20	Turbidity	27.6	NTU
GS-AP-MW-28H	3/13/2019 12:25	Conductivity	554.8	uS/cm
GS-AP-MW-28H	3/13/2019 12:25	DO	1.2	mg/L
GS-AP-MW-28H	3/13/2019 12:25	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:25	Oxidation Reduction Potention	50.6	mv
GS-AP-MW-28H	3/13/2019 12:25	pH	8.28	pH
GS-AP-MW-28H	3/13/2019 12:25	Temperature	18.95	C
GS-AP-MW-28H	3/13/2019 12:25	Turbidity	27.6	NTU
GS-AP-MW-28H	3/13/2019 12:30	Conductivity	557.2	uS/cm
GS-AP-MW-28H	3/13/2019 12:30	DO	1.18	mg/L
GS-AP-MW-28H	3/13/2019 12:30	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:30	Oxidation Reduction Potention	50.6	mv
GS-AP-MW-28H	3/13/2019 12:30	pH	8.28	pH
GS-AP-MW-28H	3/13/2019 12:30	Temperature	18.97	C
GS-AP-MW-28H	3/13/2019 12:30	Turbidity	26.7	NTU
GS-AP-MW-28H	3/13/2019 12:35	Conductivity	561.1	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	3/13/2019 12:35	DO	1.17	mg/L
GS-AP-MW-28H	3/13/2019 12:35	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:35	Oxidation Reduction Potention	51.7	mv
GS-AP-MW-28H	3/13/2019 12:35	pH	8.29	pH
GS-AP-MW-28H	3/13/2019 12:35	Temperature	19.08	C
GS-AP-MW-28H	3/13/2019 12:35	Turbidity	28.9	NTU
GS-AP-MW-28H	3/13/2019 12:40	Conductivity	560.2	uS/cm
GS-AP-MW-28H	3/13/2019 12:40	DO	1.17	mg/L
GS-AP-MW-28H	3/13/2019 12:40	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:40	Oxidation Reduction Potention	52.6	mv
GS-AP-MW-28H	3/13/2019 12:40	pH	8.29	pH
GS-AP-MW-28H	3/13/2019 12:40	Temperature	18.96	C
GS-AP-MW-28H	3/13/2019 12:40	Turbidity	28.9	NTU
GS-AP-MW-28H	3/13/2019 12:45	Conductivity	562.9	uS/cm
GS-AP-MW-28H	3/13/2019 12:45	DO	1.17	mg/L
GS-AP-MW-28H	3/13/2019 12:45	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:45	Oxidation Reduction Potention	51.8	mv
GS-AP-MW-28H	3/13/2019 12:45	pH	8.29	pH
GS-AP-MW-28H	3/13/2019 12:45	Temperature	18.94	C
GS-AP-MW-28H	3/13/2019 12:45	Turbidity	27	NTU
GS-AP-MW-28H	3/13/2019 12:50	Conductivity	561.6	uS/cm
GS-AP-MW-28H	3/13/2019 12:50	DO	1.15	mg/L
GS-AP-MW-28H	3/13/2019 12:50	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:50	Oxidation Reduction Potention	52.5	mv
GS-AP-MW-28H	3/13/2019 12:50	pH	8.29	pH
GS-AP-MW-28H	3/13/2019 12:50	Temperature	19.15	C
GS-AP-MW-28H	3/13/2019 12:50	Turbidity	27.2	NTU
GS-AP-MW-28H	3/13/2019 12:55	Conductivity	563.1	uS/cm
GS-AP-MW-28H	3/13/2019 12:55	DO	1.13	mg/L
GS-AP-MW-28H	3/13/2019 12:55	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 12:55	Oxidation Reduction Potention	51.7	mv
GS-AP-MW-28H	3/13/2019 12:55	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 12:55	Temperature	19.12	C
GS-AP-MW-28H	3/13/2019 12:55	Turbidity	25.1	NTU
GS-AP-MW-28H	3/13/2019 13:00	Conductivity	563.6	uS/cm
GS-AP-MW-28H	3/13/2019 13:00	DO	1.09	mg/L
GS-AP-MW-28H	3/13/2019 13:00	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:00	Oxidation Reduction Potention	53.5	mv
GS-AP-MW-28H	3/13/2019 13:00	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:00	Temperature	19.12	C
GS-AP-MW-28H	3/13/2019 13:00	Turbidity	25.2	NTU
GS-AP-MW-28H	3/13/2019 13:05	Conductivity	560.9	uS/cm
GS-AP-MW-28H	3/13/2019 13:05	DO	1.07	mg/L
GS-AP-MW-28H	3/13/2019 13:05	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:05	Oxidation Reduction Potention	54.5	mv
GS-AP-MW-28H	3/13/2019 13:05	pH	8.31	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	3/13/2019 13:05	Temperature	19.03	C
GS-AP-MW-28H	3/13/2019 13:05	Turbidity	24	NTU
GS-AP-MW-28H	3/13/2019 13:10	Conductivity	558.3	uS/cm
GS-AP-MW-28H	3/13/2019 13:10	DO	1.06	mg/L
GS-AP-MW-28H	3/13/2019 13:10	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:10	Oxidation Reduction Potention	54.9	mv
GS-AP-MW-28H	3/13/2019 13:10	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:10	Temperature	18.95	C
GS-AP-MW-28H	3/13/2019 13:10	Turbidity	25.2	NTU
GS-AP-MW-28H	3/13/2019 13:15	Conductivity	562	uS/cm
GS-AP-MW-28H	3/13/2019 13:15	DO	1.04	mg/L
GS-AP-MW-28H	3/13/2019 13:15	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:15	Oxidation Reduction Potention	52.6	mv
GS-AP-MW-28H	3/13/2019 13:15	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:15	Temperature	18.82	C
GS-AP-MW-28H	3/13/2019 13:15	Turbidity	24.4	NTU
GS-AP-MW-28H	3/13/2019 13:20	Conductivity	566.4	uS/cm
GS-AP-MW-28H	3/13/2019 13:20	DO	1.03	mg/L
GS-AP-MW-28H	3/13/2019 13:20	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:20	Oxidation Reduction Potention	53.3	mv
GS-AP-MW-28H	3/13/2019 13:20	pH	8.29	pH
GS-AP-MW-28H	3/13/2019 13:20	Temperature	18.84	C
GS-AP-MW-28H	3/13/2019 13:20	Turbidity	25.1	NTU
GS-AP-MW-28H	3/13/2019 13:25	Conductivity	566.8	uS/cm
GS-AP-MW-28H	3/13/2019 13:25	DO	1.03	mg/L
GS-AP-MW-28H	3/13/2019 13:25	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:25	Oxidation Reduction Potention	51.7	mv
GS-AP-MW-28H	3/13/2019 13:25	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:25	Temperature	18.87	C
GS-AP-MW-28H	3/13/2019 13:25	Turbidity	24.1	NTU
GS-AP-MW-28H	3/13/2019 13:30	Conductivity	566.5	uS/cm
GS-AP-MW-28H	3/13/2019 13:30	DO	1.02	mg/L
GS-AP-MW-28H	3/13/2019 13:30	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:30	Oxidation Reduction Potention	51	mv
GS-AP-MW-28H	3/13/2019 13:30	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:30	Temperature	18.99	C
GS-AP-MW-28H	3/13/2019 13:30	Turbidity	24	NTU
GS-AP-MW-28H	3/13/2019 13:35	Conductivity	568	uS/cm
GS-AP-MW-28H	3/13/2019 13:35	DO	1	mg/L
GS-AP-MW-28H	3/13/2019 13:35	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:35	Oxidation Reduction Potention	51.1	mv
GS-AP-MW-28H	3/13/2019 13:35	pH	8.31	pH
GS-AP-MW-28H	3/13/2019 13:35	Temperature	19	C
GS-AP-MW-28H	3/13/2019 13:35	Turbidity	23.5	NTU
GS-AP-MW-28H	3/13/2019 13:40	Conductivity	567.5	uS/cm
GS-AP-MW-28H	3/13/2019 13:40	DO	0.97	mg/L

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	3/13/2019 13:40	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:40	Oxidation Reduction Potention	51	mv
GS-AP-MW-28H	3/13/2019 13:40	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:40	Temperature	19.21	C
GS-AP-MW-28H	3/13/2019 13:40	Turbidity	23.6	NTU
GS-AP-MW-28H	3/13/2019 13:45	Conductivity	565.9	uS/cm
GS-AP-MW-28H	3/13/2019 13:45	DO	0.96	mg/L
GS-AP-MW-28H	3/13/2019 13:45	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:45	Oxidation Reduction Potention	54.2	mv
GS-AP-MW-28H	3/13/2019 13:45	pH	8.31	pH
GS-AP-MW-28H	3/13/2019 13:45	Temperature	19.26	C
GS-AP-MW-28H	3/13/2019 13:45	Turbidity	24.6	NTU
GS-AP-MW-28H	3/13/2019 13:50	Conductivity	568	uS/cm
GS-AP-MW-28H	3/13/2019 13:50	DO	0.94	mg/L
GS-AP-MW-28H	3/13/2019 13:50	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:50	Oxidation Reduction Potention	56	mv
GS-AP-MW-28H	3/13/2019 13:50	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:50	Temperature	19.3	C
GS-AP-MW-28H	3/13/2019 13:50	Turbidity	24	NTU
GS-AP-MW-28H	3/13/2019 13:55	Conductivity	567.8	uS/cm
GS-AP-MW-28H	3/13/2019 13:55	DO	0.94	mg/L
GS-AP-MW-28H	3/13/2019 13:55	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 13:55	Oxidation Reduction Potention	58.6	mv
GS-AP-MW-28H	3/13/2019 13:55	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 13:55	Temperature	19.46	C
GS-AP-MW-28H	3/13/2019 13:55	Turbidity	23.7	NTU
GS-AP-MW-28H	3/13/2019 14:00	Conductivity	565.7	uS/cm
GS-AP-MW-28H	3/13/2019 14:00	DO	0.95	mg/L
GS-AP-MW-28H	3/13/2019 14:00	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 14:00	Oxidation Reduction Potention	61.4	mv
GS-AP-MW-28H	3/13/2019 14:00	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 14:00	Temperature	19.21	C
GS-AP-MW-28H	3/13/2019 14:00	Turbidity	23.4	NTU
GS-AP-MW-28H	3/13/2019 14:05	Conductivity	565.8	uS/cm
GS-AP-MW-28H	3/13/2019 14:05	DO	0.93	mg/L
GS-AP-MW-28H	3/13/2019 14:05	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 14:05	Oxidation Reduction Potention	58.1	mv
GS-AP-MW-28H	3/13/2019 14:05	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 14:05	Temperature	19.15	C
GS-AP-MW-28H	3/13/2019 14:05	Turbidity	22.5	NTU
GS-AP-MW-28H	3/13/2019 14:10	Conductivity	567.4	uS/cm
GS-AP-MW-28H	3/13/2019 14:10	DO	0.92	mg/L
GS-AP-MW-28H	3/13/2019 14:10	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 14:10	Oxidation Reduction Potention	56.9	mv
GS-AP-MW-28H	3/13/2019 14:10	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 14:10	Temperature	19.03	C

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	3/13/2019 14:10	Turbidity	22.4	NTU
GS-AP-MW-28H	3/13/2019 14:15	Conductivity	567.5	uS/cm
GS-AP-MW-28H	3/13/2019 14:15	DO	0.88	mg/L
GS-AP-MW-28H	3/13/2019 14:15	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 14:15	Oxidation Reduction Potention	52.2	mv
GS-AP-MW-28H	3/13/2019 14:15	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 14:15	Temperature	18.94	C
GS-AP-MW-28H	3/13/2019 14:15	Turbidity	21.2	NTU
GS-AP-MW-28H	3/13/2019 14:21	Conductivity	567.7	uS/cm
GS-AP-MW-28H	3/13/2019 14:21	DO	0.88	mg/L
GS-AP-MW-28H	3/13/2019 14:21	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 14:21	Oxidation Reduction Potention	50.9	mv
GS-AP-MW-28H	3/13/2019 14:21	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 14:21	Temperature	18.85	C
GS-AP-MW-28H	3/13/2019 14:21	Turbidity	21.3	NTU
GS-AP-MW-28H	3/13/2019 14:26	Conductivity	567.1	uS/cm
GS-AP-MW-28H	3/13/2019 14:26	DO	0.86	mg/L
GS-AP-MW-28H	3/13/2019 14:26	Depth to Water Detail	155.1	ft
GS-AP-MW-28H	3/13/2019 14:26	Oxidation Reduction Potention	50.3	mv
GS-AP-MW-28H	3/13/2019 14:26	pH	8.3	pH
GS-AP-MW-28H	3/13/2019 14:26	Temperature	19.04	C
GS-AP-MW-28H	3/13/2019 14:26	Turbidity	22.3	NTU

1st
Semi-Annual
Monitoring Event

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

Field Case Narrative



Gorgas Ash Pond

2019 Compliance Event 1

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

Recent drilling and installation of delineation wells next to MW-7 and MW-18 resulted in elevated turbidity levels and longer pump times. Turbidity levels less than 10 NTU were not able to be achieved after extended pumping for well MW-7. A complete sample set for totals analysis was collected followed by a field filtered set for dissolved analysis.

Field quality control procedures were performed as follows:

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

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6247 or 6171
FAX (205) 664-6108


Analytical Report



Sample Group : WMWGORAP_1216
Project/Site : Gorgas Ash Pond
Parrish, AL 35580
For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243
Attention : Dustin Brooks & Greg Dyer
Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

Quality Control:  **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lbmidkif@southernco.com, c=US
Date: 2019.06.06 09:36:01 -0500

Supervision:  **T. Durant
Maske**

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2019.06.06 10:37:41 -0500



Metals ICP

Gorgas Ash Pond

WMWGORAP_1216

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>
AZ09832	644900	WMWGORAP_1216
AZ09833	644900	WMWGORAP_1216
AZ09834	644900	WMWGORAP_1216
AZ09835	644900	WMWGORAP_1216
AZ09836	644900	WMWGORAP_1216
AZ09837	644900	WMWGORAP_1216
AZ09838	644900	WMWGORAP_1216
AZ09839	644900	WMWGORAP_1216
AZ09840	644900	WMWGORAP_1216
AZ09841	644900	WMWGORAP_1216
AZ09842	644901	WMWGORAP_1216
AZ09843	644901	WMWGORAP_1216
AZ09844	644901	WMWGORAP_1216
AZ09845	644901	WMWGORAP_1216
AZ09846	644901	WMWGORAP_1216
AZ09847	644901	WMWGORAP_1216
AZ09848	644901	WMWGORAP_1216
AZ09849	644901	WMWGORAP_1216
AZ09850	644901	WMWGORAP_1216
AZ09851	644901	WMWGORAP_1216
AZ10372	644902	WMWGORAP_1216
AZ10373	644902	WMWGORAP_1216

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.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1216

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>
AZ09832	644621	WMWGORAP_1216
AZ09833	644621	WMWGORAP_1216
AZ09834	644621	WMWGORAP_1216
AZ09835	644621	WMWGORAP_1216
AZ09836	644621	WMWGORAP_1216
AZ09837	644621	WMWGORAP_1216
AZ09838	644621	WMWGORAP_1216
AZ09839	644621	WMWGORAP_1216
AZ09840	644621	WMWGORAP_1216
AZ09841	644621	WMWGORAP_1216
AZ09842	644622	WMWGORAP_1216
AZ09843	644622	WMWGORAP_1216
AZ09844	644622	WMWGORAP_1216
AZ09845	644622	WMWGORAP_1216
AZ09846	644622	WMWGORAP_1216
AZ09847	644622	WMWGORAP_1216
AZ09848	644622	WMWGORAP_1216
AZ09849	644622	WMWGORAP_1216
AZ09850	644622	WMWGORAP_1216
AZ09851	644622	WMWGORAP_1216
AZ10372	645368	WMWGORAP_1216
AZ10373	645368	WMWGORAP_1216

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 x5.075 dilution to compensate for potential matrix effects.
 8. The raw data results are shown with dilution factors included.



Mercury

Gorgas Ash Pond

WMWGORAP_1216

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>
AZ09832	645124	WMWGORAP_1216
AZ09833	645124	WMWGORAP_1216
AZ09834	645124	WMWGORAP_1216
AZ09835	645124	WMWGORAP_1216
AZ09836	645124	WMWGORAP_1216
AZ09837	645124	WMWGORAP_1216
AZ09838	645124	WMWGORAP_1216
AZ09839	645124	WMWGORAP_1216
AZ09840	645124	WMWGORAP_1216
AZ09841	645124	WMWGORAP_1216
AZ09842	645125	WMWGORAP_1216
AZ09843	645125	WMWGORAP_1216
AZ09844	645125	WMWGORAP_1216
AZ09845	645125	WMWGORAP_1216
AZ09846	645125	WMWGORAP_1216
AZ09847	645125	WMWGORAP_1216
AZ09848	645125	WMWGORAP_1216
AZ09849	645125	WMWGORAP_1216
AZ09850	645125	WMWGORAP_1216
AZ09851	645125	WMWGORAP_1216
AZ10372	645434	WMWGORAP_1216
AZ10373	645434	WMWGORAP_1216

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.
- The QC associated with samples AZ10372-73 is from project WMWGORLF_1219.

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

Gorgas Ash Pond

WMWGORAP_1216

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>
AZ09832	644942	WMWGORAP_1216
AZ09833	644942	WMWGORAP_1216
AZ09834	644942	WMWGORAP_1216
AZ09835	644942	WMWGORAP_1216
AZ09836	644942	WMWGORAP_1216
AZ09837	644942	WMWGORAP_1216
AZ09838	644942	WMWGORAP_1216
AZ09839	644942	WMWGORAP_1216
AZ09840	644942	WMWGORAP_1216
AZ09841	644942	WMWGORAP_1216
AZ09842	644943	WMWGORAP_1216
AZ09843	644943	WMWGORAP_1216
AZ09844	644943	WMWGORAP_1216
AZ09845	644943	WMWGORAP_1216
AZ09846	644943	WMWGORAP_1216
AZ09847	644943	WMWGORAP_1216
AZ09848	644943	WMWGORAP_1216
AZ09849	644943	WMWGORAP_1216
AZ09850	644943	WMWGORAP_1216
AZ09851	644943	WMWGORAP_1216
AZ10372	645539	WMWGORAP_1216
AZ10373	645539	WMWGORAP_1216

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



General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%, except for AZ09841.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - AZ09835
 - AZ09847
 - AZ09851



Anions

Gorgas Ash Pond

WMWGORAP_1216

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>
AZ09832	644880, 644850, & 644979	WMWGORAP_1216
AZ09833	644880, 644850, & 644979	WMWGORAP_1216
AZ09834	644880, 644850, & 644979	WMWGORAP_1216
AZ09835	644880, 644850, & 644979	WMWGORAP_1216
AZ09836	644880, 644850, & 644979	WMWGORAP_1216
AZ09837	644880, 644850, & 644979	WMWGORAP_1216
AZ09838	644880, 644850, & 644979	WMWGORAP_1216
AZ09839	644880, 644850, & 644979	WMWGORAP_1216
AZ09840	644880, 644850, & 644979	WMWGORAP_1216
AZ09841	644880, 644850, & 644979	WMWGORAP_1216
AZ09842	644881, 644851, & 644980	WMWGORAP_1216
AZ09843	644881, 644851, & 644980	WMWGORAP_1216
AZ09844	644881, 644851, & 644980	WMWGORAP_1216
AZ09845	644881, 644851, & 644980	WMWGORAP_1216
AZ09846	644881, 644851, & 644980	WMWGORAP_1216
AZ09847	644881, 644851, & 644980	WMWGORAP_1216
AZ09848	644881, 644851, & 644980	WMWGORAP_1216
AZ09849	644881, 644851, & 644980	WMWGORAP_1216
AZ09850	644881, 644851, & 644980	WMWGORAP_1216
AZ09851	644881, 644851, & 644980	WMWGORAP_1216
AZ10372	645072, 645025, & 644981	WMWGORAP_1216
AZ10373	645072, 645025, & 644981	WMWGORAP_1216

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



General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below 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.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ09832	Sulfate	x2
AZ09833	Sulfate	x2
AZ09834	Sulfate	x25
AZ09834	Chloride	x2
AZ09837	Sulfate	x10
AZ09843	Sulfate	x3
AZ09845	Sulfate	x5
AZ09846	Sulfate	x5
AZ09848	Sulfate	x10
AZ09850	Sulfate	x25
AZ09850	Chloride	x2
AZ10372	Sulfate	x25
AZ10373	Sulfate	x25

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

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: AZ09832

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	0.0880	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.879	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	1.10	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	54.0	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	J 0.000828	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.267	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00747	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	285	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	8.36	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.156	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		2	1.00	2	46.8	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 7.26	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: AZ09832

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	70 to 130	2.70	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 Calera, AL 35040
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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: AZ09832

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6D DUP

Laboratory ID Number: AZ09833

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	0.0869	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.865	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	1.09	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	53.5	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.266	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00762	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	277	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	8.93	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.193	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		2	1.00	2	46.2	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 7.26	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6D DUP

Laboratory ID Number: AZ09833

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115		91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115		94.0	70 to 130	0.782	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115		82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115		95.1	70 to 130	0.549	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115		92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115		88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23		112	70 to 130	1.35	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15		100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046		103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115		106	70 to 130	2.70	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115		99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115		97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115		95.9	70 to 130	4.08	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75		89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115		95.4	70 to 130	0.664	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6D DUP

Laboratory ID Number: AZ09833

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec		Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6247 or 6171
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Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: AZ09834

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	0.0164	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.124	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	0.961	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	57.1	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00246	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	382	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		2	1.00	2	23.1	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.147	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		25	12.50	25	195	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 6.82	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: AZ09834

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115		91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115		94.0	70 to 130	0.782	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115		82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115		95.1	70 to 130	0.549	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15		100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046		103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115		106	70 to 130	2.70	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115		99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115		97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115		95.9	70 to 130	4.08	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115		92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115		88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23		112	70 to 130	1.35	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75		89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115		95.4	70 to 130	0.664	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: AZ09834

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ09835

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ09835

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	70 to 130	2.70	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ09835

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: AZ09836

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00459	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	4.43	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U Not Detected	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	92.0	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	3.69	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.143	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	4.53	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 5.76	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: AZ09836

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	70 to 130	2.70	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: AZ09836

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-9

Laboratory ID Number: AZ09837

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	J 0.00403	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.0256	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J 0.0979	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	73.3	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.0673	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00462	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	397	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	2.81	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.154	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		10	5.00	10	154	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 6.69	SU

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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-9

Laboratory ID Number: AZ09837

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	70 to 130	2.70	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-9

Laboratory ID Number: AZ09837

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS	Rec		Prec	
							Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-11

Laboratory ID Number: AZ09838

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.210	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	46.7	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	J 0.0129	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	226	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	8.06	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.177	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	23.2	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 6.93	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-11

Laboratory ID Number: AZ09838

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-11

Laboratory ID Number: AZ09838

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: AZ09839

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	0.0140	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.161	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J 0.0385	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	38.3	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.0261	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	193	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	3.22	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.188	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	13.3	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 7.41	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: AZ09839

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: AZ09839

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec		Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-13

Laboratory ID Number: AZ09840

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.160	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	38.6	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	J 0.0101	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	185	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	3.23	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.197	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	12.1	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 6.64	SU

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 conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-13

Laboratory ID Number: AZ09840

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-13

Laboratory ID Number: AZ09840

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-14

Laboratory ID Number: AZ09841

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	J 0.00110	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.305	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	39.5	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.0328	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	P 184	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	7.70	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.204	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	16.9	mg/L
Field Measurements									
pH	AWG	4/16/2019						FA 7.03	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: TDS result is qualified due to precision failure. LBM 4/25/19

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-14

Laboratory ID Number: AZ09841

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AZ09841	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0940	0.0948	0.0995	0.085 to 0.115	94.0	70 to 130	0.782	20
AZ09841	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0913	0.0918	0.0924	0.085 to 0.115	91.3	70 to 130	0.492	20
AZ09841	Calcium, Total	mg/L	-0.0000301	0.216749	5.00	44.0	44.0	4.94	4.25 to 5.75	89.6	70 to 130	0.179	20
AZ09841	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0948	0.101	0.085 to 0.115	95.4	70 to 130	0.664	20
AZ09841	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.388	0.393	0.0970	0.085 to 0.115	82.6	70 to 130	1.20	20
AZ09841	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0951	0.0956	0.0968	0.085 to 0.115	95.1	70 to 130	0.549	20
AZ09841	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0923	0.0930	0.0975	0.085 to 0.115	92.3	70 to 130	0.811	20
AZ09841	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0888	0.0890	0.100	0.085 to 0.115	88.8	70 to 130	0.171	20
AZ09841	Lithium, Total	mg/L	-0.000355	0.019704	0.20	0.256	0.253	0.209	0.17 to 0.23	112	70 to 130	1.35	20
AZ09841	Boron, Total	mg/L	-0.00291	0.065025	1.00	1.00	0.996	0.972	0.85 to 1.15	100	70 to 130	0.663	20
AZ09841	Mercury, Total by CVAA	mg/L	0.0001	0.0005	0.004	0.00412	0.00409	0.00415	0.0034 to 0.0046	103	70 to 130	0.731	20
AZ09841	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.106	0.109	0.104	0.085 to 0.115	106	70 to 130	2.70	20
AZ09841	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.101	0.100	0.103	0.085 to 0.115	99.5	70 to 130	0.205	20
AZ09841	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0972	0.0967	0.104	0.085 to 0.115	97.2	70 to 130	0.534	20
AZ09841	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.0959	0.0999	0.102	0.085 to 0.115	95.9	70 to 130	4.08	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: TDS result is qualified due to precision failure. LBM 4/25/19

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 16-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-14

Laboratory ID Number: AZ09841

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec		Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09841	Chloride	mg/L	-0.0984	0.50	10.0	18.4	7.74	10.0	9 to 11	107	80 to 120	0.518	20
AZ09841	Fluoride	mg/L	0.0471	0.05	2.50	2.70	0.205	2.47	2.25 to 2.75	99.8	80 to 120	0.489	20
AZ09841	Solids, Dissolved	mg/L	-3.00	25			213	48.0	40 to 60			7.30	5
AZ09841	Sulfate	mg/L	-0.392	0.50	20.0	36.1	16.8	19.4	18 to 22	96.0	80 to 120	0.593	20

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* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: TDS result is qualified due to precision failure. LBM 4/25/19

CC:

Reported: 6/5/2019
 Version: 2.0

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: AZ09842

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.322	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	32.3	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.0349	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	207	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	2.82	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.171	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	14.1	mg/L
Field Measurements									
pH	AWG	4/17/2019						FA 7.33	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: AZ09842

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20	
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20	
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20	
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20	
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20	
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20	
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20	
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20	
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20	
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20	
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20	
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20	
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20	
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20	
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20	

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: AZ09842

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: AZ09843

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.0576	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	0.165	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	0.511	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.0421	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00293	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	341	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	9.50	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.868	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		3	1.50	3	48.6	mg/L
Field Measurements									
pH	AWG	4/17/2019						FA 9.26	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 744 County Road 87, GSC#8
 Calera, AL 35040
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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: AZ09843

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec
				Limit	Spike				Limit	Rec	Limit	Prec	
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: AZ09843

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	80 to 120	0.00	20

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Laboratory certification ID: E571114

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 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: AZ09844

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	J 0.00302	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.316	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J 0.0336	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	38.4	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.0429	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J 0.00703	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	296	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	7.27	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.270	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	14.3	mg/L
Field Measurements									
pH	AWG	4/17/2019						FA 8.06	SU

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Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: AZ09844

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec Limit	
			MB	Limit					Limit	Rec	Limit	Prec		
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115		110	70 to 130	0.119	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115		93.5	70 to 130	2.03	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115		91.8	70 to 130	2.85	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115		91.4	70 to 130	1.30	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115		98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115		95.4	70 to 130	4.14	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75		97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115		96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115		102	70 to 130	1.44	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115		96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115		98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115		92.5	70 to 130	1.12	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15		96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046		102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23		102	70 to 130	0.177	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: AZ09844

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	80 to 120	0.00	20

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Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-18

Laboratory ID Number: AZ09845

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	J	0.00481	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.105	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		0.449	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		40.9	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02		0.0942	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.0113	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25		347	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1		6.61	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1		0.632	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		5	2.50	5		71.6	mg/L
Field Measurements										
pH	AWG	4/17/2019							FA 7.58	SU

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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

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-18

Laboratory ID Number: AZ09845

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20

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

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-18

Laboratory ID Number: AZ09845

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-18 DUP

Laboratory ID Number: AZ09846

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	J	0.00420	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.0963	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		0.449	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		40.8	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02		0.0943	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.0114	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25		358	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1		6.57	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1		0.638	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		5	2.50	5		68.7	mg/L
Field Measurements										
pH	AWG	4/17/2019							FA 7.58	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-18 DUP

Laboratory ID Number: AZ09846

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-18 DUP

Laboratory ID Number: AZ09846

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPEB
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ09847

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	J	0.0501	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPEB
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ09847

Sample	Analysis	Units	MB		Spike	MS	MSD	LCS	LCS		Rec		Prec	Limit	
			MB	Limit					Limit	Rec	Limit	Prec			
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115		110	70 to 130		0.119	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115		93.5	70 to 130		2.03	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115		91.8	70 to 130		2.85	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115		91.4	70 to 130		1.30	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115		98.3	70 to 130		2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115		95.4	70 to 130		4.14	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75		97.7	70 to 130		1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115		96.8	70 to 130		1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115		102	70 to 130		1.44	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15		96.7	70 to 130		1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046		102	70 to 130		0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23		102	70 to 130		0.177	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115		96.5	70 to 130		0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115		98.0	70 to 130		2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115		92.5	70 to 130		1.12	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPEB
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ09847

Sample	Analysis	Units MB	MB			Sample		LCS	Rec			Prec
			Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Chloride	mg/L -0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09851	Fluoride	mg/L 0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L -3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L -0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	80 to 120	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, 2019

Comments:

CC:

Reported: 6/5/2019
 Version: 2.0

Alabama Power General Test Laboratory
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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: AZ09848

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	J	0.00343	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.0946	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J	0.0916	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		3.86	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02		0.0574	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	J	0.00661	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		50		540	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1		12.7	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1		0.354	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		10	5.00	10		76.6	mg/L
Field Measurements										
pH	SNP	4/17/2019							FA 8.36	SU

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: AZ09848

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: AZ09848

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: AZ09849

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	0.00633	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.264	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J 0.0388	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	8.53	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.190	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	0.0290	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	354	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1			04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	5.20	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	0.463	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	9.02	mg/L
Field Measurements									
pH	SNP	4/17/2019						FA 10.76	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: AZ09849

Sample	Analysis	Units	MB	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115		91.8	70 to 130	2.85	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115		93.5	70 to 130	2.03	20
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115		110	70 to 130	0.119	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115		91.4	70 to 130	1.30	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115		98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115		95.4	70 to 130	4.14	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75		97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115		96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115		102	70 to 130	1.44	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115		96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115		98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115		92.5	70 to 130	1.12	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15		96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046		102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23		102	70 to 130	0.177	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: AZ09849

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
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 Calera, AL 35040
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 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: AZ09850

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.0914	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J	0.0675	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		2.88	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02		0.312	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01		0.0885	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		50		582	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		2	1.00	2		32.3	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1		0.272	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		25	12.50	25		215	mg/L
Field Measurements										
pH	SNP	4/17/2019							FA 11.71	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

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 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: AZ09850

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS		Rec		Prec	Limit
			MB	Limit				Limit	Rec	Limit	Prec		
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: AZ09850

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample		LCS Limit	Rec		Prec Limit	
							Duplicate	LCS		Rec	Limit		
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	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 conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ09851

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/19/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CRB	4/25/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CRB	4/19/2019	SM 2540C		1				04/19/2019	Date
* Chloride	JCC	4/24/2019	SM4500CI E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	4/24/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	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, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ09851

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Limit	
			MB	Limit					Rec	Limit			
AZ09851	Beryllium, Total	mg/L	0.0000369	0.00132	0.10	0.0918	0.0892	0.0975	0.085 to 0.115	91.8	70 to 130	2.85	20
AZ09851	Barium, Total	mg/L	0.00000277	0.0044	0.10	0.0935	0.0954	0.0970	0.085 to 0.115	93.5	70 to 130	2.03	20
AZ09851	Thallium, Total	mg/L	0.00000243	0.00044	0.10	0.110	0.110	0.104	0.085 to 0.115	110	70 to 130	0.119	20
AZ09851	Cobalt, Total	mg/L	-0.00000090	0.0044	0.10	0.0914	0.0926	0.100	0.085 to 0.115	91.4	70 to 130	1.30	20
AZ09851	Calcium, Total	mg/L	0.000189	0.216749	5.00	4.89	4.96	4.93	4.25 to 5.75	97.7	70 to 130	1.51	20
AZ09851	Molybdenum, Total	mg/L	0.00000463	0.0044	0.10	0.0968	0.0986	0.0968	0.085 to 0.115	96.8	70 to 130	1.77	20
AZ09851	Lead, Total	mg/L	0.00000424	0.0022	0.10	0.102	0.100	0.102	0.085 to 0.115	102	70 to 130	1.44	20
AZ09851	Cadmium, Total	mg/L	0.00000144	0.00066	0.10	0.0965	0.0961	0.0995	0.085 to 0.115	96.5	70 to 130	0.415	20
AZ09851	Chromium, Total	mg/L	0.00000244	0.0044	0.10	0.0980	0.100	0.104	0.085 to 0.115	98.0	70 to 130	2.08	20
AZ09851	Antimony, Total	mg/L	0.000143	0.00176	0.10	0.0925	0.0915	0.0924	0.085 to 0.115	92.5	70 to 130	1.12	20
AZ09851	Arsenic, Total	mg/L	0.00000418	0.0022	0.10	0.0983	0.101	0.103	0.085 to 0.115	98.3	70 to 130	2.66	20
AZ09851	Selenium, Total	mg/L	0.0000879	0.0044	0.10	0.0954	0.0994	0.101	0.085 to 0.115	95.4	70 to 130	4.14	20
AZ09851	Boron, Total	mg/L	-0.00189	0.065025	1.00	0.967	0.979	0.972	0.85 to 1.15	96.7	70 to 130	1.25	20
AZ09851	Mercury, Total by CVAA	mg/L	0.00007	0.0005	0.004	0.00408	0.00408	0.00412	0.0034 to 0.0046	102	70 to 130	0.00	20
AZ09851	Lithium, Total	mg/L	-0.000339	0.019704	0.20	0.205	0.205	0.207	0.17 to 0.23	102	70 to 130	0.177	20

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAPFB
 Sample Date: 17-Apr-19
 Customer ID:
 Delivery Date: 18-Apr-19

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ09851

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec			Prec
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ09851	Fluoride	mg/L	0.0346	0.05	2.50	2.40	0.0475	2.48	2.25 to 2.75	96.0	80 to 120	0.00	20
AZ09851	Chloride	mg/L	-0.0886	0.50	10.0	10.2	0.160	10.1	9 to 11	102	80 to 120	0.00	20
AZ09850	Solids, Dissolved	mg/L	-3.00	25			608	48.0	40 to 60			2.18	5
AZ09851	Sulfate	mg/L	-0.214	0.50	20.0	20.0	-0.265	19.6	18 to 22	100	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, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis Alabama Power



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 24-Apr-19

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: AZ10372

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.001	0.005	0.207	mg/L
* Barium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	0.113	mg/L
* Beryllium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	1.50	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	13.8	mg/L
* Cadmium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0008	0.003	J 0.00105	mg/L
* Cobalt, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.005	J 0.00231	mg/L
* Chromium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	J 0.00435	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.144	mg/L
* Molybdenum, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	0.185	mg/L
* Lead, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.001	0.005	J 0.00207	mg/L
* Selenium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		25	354	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1	5.16	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.111	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		25	12.50	25	156	mg/L
Field Measurements									
pH	SNP	4/23/2019						FA 7.83	SU

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 24-Apr-19

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: AZ10372

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec	Prec Limit	
			MB	Limit					Rec	Limit			
AZ10373	Arsenic, Total	mg/L	0.0000109	0.0022	0.10	0.282	0.282	0.103	0.085 to 0.115	99.0	70 to 130	0.00	20
AZ10373	Barium, Total	mg/L	0.00000579	0.0044	0.10	0.142	0.142	0.0951	0.085 to 0.115	90.7	70 to 130	0.00	20
AZ10373	Beryllium, Total	mg/L	0.0000678	0.00132	0.10	0.0953	0.0993	0.0987	0.085 to 0.115	95.3	70 to 130	4.11	20
AZ10373	Boron, Total	mg/L	-0.00163	0.065025	1.00	2.49	2.48	0.962	0.85 to 1.15	99.0	70 to 130	0.0427	20
AZ10373	Calcium, Total	mg/L	-0.000554	0.216749	5.00	18.1	18.0	4.92	4.25 to 5.75	98.7	70 to 130	0.469	20
AZ10373	Cadmium, Total	mg/L	0.00000183	0.00066	0.10	0.100	0.0982	0.104	0.085 to 0.115	100	70 to 130	1.82	20
AZ10373	Cobalt, Total	mg/L	0.0000130	0.0044	0.10	0.104	0.104	0.108	0.085 to 0.115	104	70 to 130	0.00	20
AZ10373	Chromium, Total	mg/L	0.0000767	0.0044	0.10	0.100	0.101	0.103	0.085 to 0.115	100	70 to 130	0.995	20
AZ10373	Lithium, Total	mg/L	-0.000197	0.019704	0.20	0.355	0.353	0.199	0.17 to 0.23	107	70 to 130	0.456	20
AZ10373	Molybdenum, Total	mg/L	0.00000870	0.0044	0.10	0.269	0.268	0.0968	0.085 to 0.115	92.0	70 to 130	0.372	20
AZ10373	Lead, Total	mg/L	0.00000703	0.0022	0.10	0.101	0.0989	0.109	0.085 to 0.115	101	70 to 130	2.10	20
AZ10373	Antimony, Total	mg/L	0.000110	0.00176	0.10	0.0992	0.0996	0.0986	0.085 to 0.115	99.2	70 to 130	0.402	20
AZ10373	Selenium, Total	mg/L	0.0000845	0.0044	0.10	0.0985	0.0971	0.102	0.085 to 0.115	98.5	70 to 130	1.43	20
AZ10373	Thallium, Total	mg/L	0.00000597	0.00044	0.10	0.102	0.0996	0.107	0.085 to 0.115	102	70 to 130	2.38	20
AZ10388	Mercury, Total by CVAA	mg/L	0.00025	0.0005	0.004	0.00428	0.00432	0.00447	0.0034 to 0.0046	107	70 to 130	0.930	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 24-Apr-19

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: AZ10372

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec		Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ10373	Chloride	mg/L	0.0602	0.50	10.0	16.0	5.68	10.1	9 to 11	102	80 to 120	1.22	20
AZ10373	Fluoride	mg/L	-0.017	0.05	2.50	2.63	0.158	2.60	2.25 to 2.75	99.6	80 to 120	11.4	20
AZ10373	Sulfate	mg/L	-0.462	0.50	500	640	156	19.5	18 to 22	96.2	80 to 120	1.90	20
AZ10373	Solids, Dissolved	mg/L	6.00	25			333	51.0	40 to 60			0.745	5

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Expiration: June 30, 2019

Comments:

CC:

Alabama Power General Test Laboratory
 744 County Road 87, GSC#8
 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Certificate Of Analysis  **Alabama Power**



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 24-Apr-19

Description: Gorgas Ash Pond - MW-7 DISS

Laboratory ID Number: AZ10373

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q Results	Units
Metals, Cyanide, Total Phenols									
* Arsenic, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.001	0.005	0.183	mg/L
* Barium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	0.0513	mg/L
* Beryllium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0006	0.003	U Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	1.50	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	13.1	mg/L
* Cadmium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0003	0.001	U Not Detected	mg/L
* Antimony, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0008	0.003	U Not Detected	mg/L
* Cobalt, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.005	U Not Detected	mg/L
* Chromium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Mercury, Total by CVAA	ABB	5/2/2019	EPA 245.1		1	0.0003	0.0005	U Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	0.141	mg/L
* Molybdenum, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	0.177	mg/L
* Lead, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.001	0.005	U Not Detected	mg/L
* Selenium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.002	0.01	U Not Detected	mg/L
* Thallium, Total	DLJ	4/29/2019	EPA 200.8		5.075	0.0002	0.001	U Not Detected	mg/L
General Characteristics									
* Solids, Dissolved	CRB	5/3/2019	SM 2540C		1		25	338	mg/L
Filter Completion Date	CES	4/25/2019	SM 2540C		1			04/25/2019	Date
* Chloride	JCC	4/29/2019	SM4500Cl E		1	0.50	1	5.75	mg/L
* Fluoride	JCC	4/26/2019	SM4500F C		1	0.05	0.1	0.141	mg/L
* Sulfate	JCC	4/25/2019	SM4500SO4 E		25	12.50	25	159	mg/L

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Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 24-Apr-19

Description: Gorgas Ash Pond - MW-7 DISS

Laboratory ID Number: AZ10373

Sample	Analysis	Units	MB		MS	MSD	LCS	LCS Limit	Rec		Prec Limit		
			MB	Limit					Rec	Limit			
AZ10373	Arsenic, Total	mg/L	0.0000109	0.0022	0.10	0.282	0.282	0.103	0.085 to 0.115	99.0	70 to 130	0.00	20
AZ10373	Barium, Total	mg/L	0.00000579	0.0044	0.10	0.142	0.142	0.0951	0.085 to 0.115	90.7	70 to 130	0.00	20
AZ10373	Beryllium, Total	mg/L	0.0000678	0.00132	0.10	0.0953	0.0993	0.0987	0.085 to 0.115	95.3	70 to 130	4.11	20
AZ10373	Boron, Total	mg/L	-0.00163	0.065025	1.00	2.49	2.48	0.962	0.85 to 1.15	99.0	70 to 130	0.0427	20
AZ10373	Calcium, Total	mg/L	-0.000554	0.216749	5.00	18.1	18.0	4.92	4.25 to 5.75	98.7	70 to 130	0.469	20
AZ10373	Cadmium, Total	mg/L	0.00000183	0.00066	0.10	0.100	0.0982	0.104	0.085 to 0.115	100	70 to 130	1.82	20
AZ10373	Cobalt, Total	mg/L	0.0000130	0.0044	0.10	0.104	0.104	0.108	0.085 to 0.115	104	70 to 130	0.00	20
AZ10373	Chromium, Total	mg/L	0.0000767	0.0044	0.10	0.100	0.101	0.103	0.085 to 0.115	100	70 to 130	0.995	20
AZ10373	Lithium, Total	mg/L	-0.000197	0.019704	0.20	0.355	0.353	0.199	0.17 to 0.23	107	70 to 130	0.456	20
AZ10373	Molybdenum, Total	mg/L	0.00000870	0.0044	0.10	0.269	0.268	0.0968	0.085 to 0.115	92.0	70 to 130	0.372	20
AZ10373	Lead, Total	mg/L	0.00000703	0.0022	0.10	0.101	0.0989	0.109	0.085 to 0.115	101	70 to 130	2.10	20
AZ10373	Antimony, Total	mg/L	0.000110	0.00176	0.10	0.0992	0.0996	0.0986	0.085 to 0.115	99.2	70 to 130	0.402	20
AZ10373	Selenium, Total	mg/L	0.0000845	0.0044	0.10	0.0985	0.0971	0.102	0.085 to 0.115	98.5	70 to 130	1.43	20
AZ10373	Thallium, Total	mg/L	0.00000597	0.00044	0.10	0.102	0.0996	0.107	0.085 to 0.115	102	70 to 130	2.38	20
AZ10388	Mercury, Total by CVAA	mg/L	0.00025	0.0005	0.004	0.00428	0.00432	0.00447	0.0034 to 0.0046	107	70 to 130	0.930	20

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 Calera, AL 35040
 (205) 664-6247 or 6171
 FAX (205) 664-6108

Batch QC Summary



To: Dustin Brooks
 Greg Dyer

Customer Account: WMWGORAP
 Sample Date: 23-Apr-19
 Customer ID:
 Delivery Date: 24-Apr-19

Description: Gorgas Ash Pond - MW-7 DISS

Laboratory ID Number: AZ10373

Sample	Analysis	Units	MB	MB			Sample		LCS	Rec		Prec	
				Limit	Spike	MS	Duplicate	LCS	Limit	Rec	Limit	Prec	Limit
AZ10373	Chloride	mg/L	0.0602	0.50	10.0	16.0	5.68	10.1	9 to 11	102	80 to 120	1.22	20
AZ10373	Fluoride	mg/L	-0.017	0.05	2.50	2.63	0.158	2.60	2.25 to 2.75	99.6	80 to 120	11.4	20
AZ10373	Sulfate	mg/L	-0.462	0.50	500	640	156	19.5	18 to 22	96.2	80 to 120	1.90	20
AZ10373	Solids, Dissolved	mg/L	6.00	25			333	51.0	40 to 60			0.745	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 conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments:

CC:



Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
BA	Analyte found in reagent blank is = RL AND is > 1/10 the amount of the sample.
C	Analyte was verified by re-analysis.
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.
E	Estimated reported value exceeded calibration range.
F	Water Field Group (WFG) qualifier; see comments for more information
FA	Field results were reviewed by the Water Field Group.
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.
J	Reported value is an estimate because concentration is less than reporting limit.
K	No MB or LCS were submitted with the sample for dissolved analysis.
L	Check standard is outside of specification limit.
LA	Analyte recovery in the check standard was above specification limit. Results may be biased high.
LL	Analyte recovery in the check standard was below specification limit. Results may be biased low.
M	LOQ verification analyzed with batch was outside of specification limit.
N	Organic constituents tentatively identified. Confirmation is needed.
P	Precision is out of specification limit.
R	Matrix spike recovery or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
S	Surrogate recovery is outside of specification limit.
T	Sample temperature is outside of specification limit.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 04/18/2019 08:11

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Che George	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Gorgas Ash Pond

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6D	4/16/19	10:41	4	Groundwater		AZ09832
MW-6DDup	04/16/2019	10:41	4	Sample Duplicate		AZ09833
MW-6S	04/16/2019	11:43	4	Groundwater		AZ09834
FB-2	04/16/2019	12:07	4	Field Blank		AZ09835
MW-8	04/16/2019	12:58	4	Groundwater		AZ09836
MW-9	04/16/2019	14:14	4	Groundwater		AZ09837
MW-11	04/16/2019	15:38	4	Groundwater		AZ09838
MW-12	04/16/2019	17:14	4	Groundwater		AZ09839
MW-13	04/16/2019	18:11	4	Groundwater		AZ09840
MW-14	04/16/2019	19:32	4	Groundwater		AZ09841
MW-16D	04/17/2019	10:07	4	Groundwater		AZ09842
MW-2	04/17/2019	13:25	4	Groundwater		AZ09843
MW-19	04/17/2019	14:34	4	Groundwater		AZ09844
MW-18	04/17/2019	18:08	4	Groundwater		AZ09845
MW-18Dup	04/17/2019	18:08	4	Groundwater		AZ09846
EB-1	04/17/2019	18:15	4	Equipment Blank		AZ09847

Relinquished By	Received By	Date/Time
		04/18/2019 08:32

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	Cooler Temp
Sample Event	1216	Thermometer ID
		pH Strip ID
		0.3 degrees C
		5408-27568-2-2
		7260-39349-1-1



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 04/18/2019 08:11

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Che George	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Gorgas Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	Radium Duplicate collected at MW-13
----------	-------------------------------------

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6D	4/16/19	10:41	1	Groundwater		AZ09852
MW-6DDup	04/16/2019	10:41	1	Sample Duplicate		AZ09853
MW-6S	04/16/2019	11:43	1	Groundwater		AZ09854
FB-2	04/16/2019	12:07	1	Field Blank		AZ09855
MW-8	04/16/2019	12:58	1	Groundwater		AZ09856
MW-9	04/16/2019	14:14	1	Groundwater		AZ09857
MW-11	04/16/2019	15:38	1	Groundwater		AZ09858
MW-12	04/16/2019	17:14	1	Groundwater		AZ09859
MW-13	04/16/2019	18:11	3	Groundwater		AZ09860
MW-14	04/16/2019	19:32	1	Groundwater		AZ09861
MW-16D	04/17/2019	10:07	1	Groundwater		AZ09862
MW-2	04/17/2019	13:25	1	Groundwater		AZ09863
MW-19	04/17/2019	14:34	1	Groundwater		AZ09864
MW-18	04/17/2019	18:08	1	Groundwater		AZ09865
MW-18Dup	04/17/2019	18:08	1	Groundwater		AZ09866
EB-1	04/17/2019	18:15	1	Equipment Blank		AZ09867

Relinquished By	Received By	Date/Time
		04/18/2019 08:32

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	Cooler Temp
Sample Event	1216	Thermometer ID
		pH Strip ID
		7260-39349-1-1

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-169112-1
Laboratory Sample Delivery Group: Gorgas Ash Pond 1216
Client Project/Site: CCR Plant Gorgas
Revision: 1

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:
8/7/2019 4:55:58 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

LINKS

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results through
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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 Gorgas

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Job ID: 400-169112-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-169112-1

RAD

Method(s) 9315: Ra-226 Prep Batch 160-430108. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ09854 MW-6S (400-169112-3), AZ09855 FB-2 (400-169112-4), AZ09856 MW-8 (400-169112-5), AZ09857 MW-9 (400-169112-6), AZ09858 MW-11 (400-169112-7), AZ09859 MW-12 (400-169112-8), AZ09860 MW-13 (400-169112-9), AZ09860 MW-13 (400-169112-9[DU]), AZ09861 MW-14 (400-169112-10), AZ09862 MW-16D (400-169112-11), AZ09863 MW-2 (400-169112-12), AZ09864 MW-19 (400-169112-13), AZ09865 MW-18 (400-169112-14), AZ09866 MW-18-DUP (400-169112-15), (LCS 160-430108/1-A) and (MB 160-430108/24-A)

Method(s) 9315: Ra-226 Prep Batch 160-430215. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ09852 MW-6D (400-169112-1), AZ09853 MW-6D DUP (400-169112-2), AZ09867 EB-1 (400-169112-16), AZ09868 MW-17 (400-169112-17), AZ09869 MW-15 (400-169112-18), AZ09869 MW-15 (400-169112-18[DU]), AZ09870 MW-21 (400-169112-19), AZ09871 FB-1 (400-169112-20), AZ10374 MW-7 (400-169112-21), AZ10374 MW-7 DISS (400-169112-22), (LCS 160-430215/1-A), (MB 160-430215/24-A), (400-169314-B-2-A), (400-169314-B-2-B MS) and (400-169314-B-2-C MSD)

Method(s) 9320: Ra-228 Prep Batch 160-430118. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ09854 MW-6S (400-169112-3), AZ09855 FB-2 (400-169112-4), AZ09856 MW-8 (400-169112-5), AZ09857 MW-9 (400-169112-6), AZ09858 MW-11 (400-169112-7), AZ09859 MW-12 (400-169112-8), AZ09860 MW-13 (400-169112-9), AZ09860 MW-13 (400-169112-9[DU]), AZ09861 MW-14 (400-169112-10), AZ09862 MW-16D (400-169112-11), AZ09863 MW-2 (400-169112-12), AZ09864 MW-19 (400-169112-13), AZ09865 MW-18 (400-169112-14), AZ09866 MW-18-DUP (400-169112-15), (LCS 160-430118/1-A) and (MB 160-430118/24-A)

Method(s) 9320: Ra-228 Prep Batch 160-430233. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ09852 MW-6D (400-169112-1), AZ09853 MW-6D DUP (400-169112-2), AZ09867 EB-1 (400-169112-16), AZ09868 MW-17 (400-169112-17), AZ09869 MW-15 (400-169112-18), AZ09869 MW-15 (400-169112-18[DU]), AZ09870 MW-21 (400-169112-19), AZ09871 FB-1 (400-169112-20), AZ10374 MW-7 (400-169112-21), AZ10374 MW-7 DISS (400-169112-22), (LCS 160-430233/1-A), (MB 160-430233/24-A), (400-169314-B-2-G), (400-169314-B-2-H MS) and (400-169314-B-2-I MSD)

Method(s) PrecSep_0: Radium 228 Prep Batch 160-430118. The following samples were prepared at a reduced aliquot due to limited volume: AZ09854 MW-6S (400-169112-3), AZ09855 FB-2 (400-169112-4), AZ09856 MW-8 (400-169112-5), AZ09857 MW-9 (400-169112-6), AZ09858 MW-11 (400-169112-7), AZ09859 MW-12 (400-169112-8), AZ09860 MW-13 (400-169112-9), AZ09860 MW-13 (400-169112-9[DU]), AZ09861 MW-14 (400-169112-10), AZ09862 MW-16D (400-169112-11), AZ09863 MW-2 (400-169112-12), AZ09864 MW-19 (400-169112-13), AZ09865 MW-18 (400-169112-14) and AZ09866 MW-18-DUP (400-169112-15).

Method(s) PrecSep_0: Radium 228 Prep Batch 160-430233. The following samples were prepared at a reduced aliquot due to limited volume: AZ09852 MW-6D (400-169112-1), AZ09853 MW-6D DUP (400-169112-2), AZ09867 EB-1 (400-169112-16), AZ09868 MW-17 (400-169112-17), AZ09869 MW-15 (400-169112-18), AZ09869 MW-15 (400-169112-18[DU]), AZ09870 MW-21 (400-169112-19), AZ09871 FB-1 (400-169112-20), AZ10374 MW-7 (400-169112-21) and AZ10374 MW-7 DISS (400-169112-22).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-430108. The following samples were prepared at a reduced aliquot due to limited volume: AZ09854 MW-6S (400-169112-3), AZ09855 FB-2 (400-169112-4), AZ09856 MW-8 (400-169112-5), AZ09857 MW-9 (400-169112-6), AZ09858 MW-11 (400-169112-7), AZ09859 MW-12 (400-169112-8), AZ09860 MW-13 (400-169112-9), AZ09860 MW-13 (400-169112-9[DU]), AZ09861 MW-14 (400-169112-10), AZ09862 MW-16D (400-169112-11), AZ09863 MW-2 (400-169112-12), AZ09864 MW-19 (400-169112-13), AZ09865 MW-18 (400-169112-14) and AZ09866 MW-18-DUP (400-169112-15).

Method(s) PrecSep-21: Radium 226 Prep Batch 160-430215. The following samples were prepared at a reduced aliquot due to limited volume: AZ09852 MW-6D (400-169112-1), AZ09853 MW-6D DUP (400-169112-2), AZ09867 EB-1 (400-169112-16), AZ09868 MW-17

Case Narrative

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Job ID: 400-169112-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

(400-169112-17), AZ09869 MW-15 (400-169112-18), AZ09869 MW-15 (400-169112-18[DUJ]), AZ09870 MW-21 (400-169112-19), AZ09871 FB-1 (400-169112-20), AZ10374 MW-7 (400-169112-21) and AZ10374 MW-7 DISS (400-169112-22).

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Method Summary

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-169112-1	AZ09852 MW-6D	Water	04/16/19 10:41	04/22/19 17:15	
400-169112-2	AZ09853 MW-6D DUP	Water	04/16/19 10:41	04/22/19 17:15	
400-169112-3	AZ09854 MW-6S	Water	04/16/19 11:43	04/22/19 17:15	
400-169112-4	AZ09855 FB-2	Water	04/16/19 12:07	04/22/19 17:15	
400-169112-5	AZ09856 MW-8	Water	04/16/19 12:58	04/22/19 17:15	
400-169112-6	AZ09857 MW-9	Water	04/16/19 14:14	04/22/19 17:15	
400-169112-7	AZ09858 MW-11	Water	04/16/19 15:38	04/22/19 17:15	
400-169112-8	AZ09859 MW-12	Water	04/16/19 17:14	04/22/19 17:15	
400-169112-9	AZ09860 MW-13	Water	04/16/19 18:11	04/22/19 17:15	
400-169112-10	AZ09861 MW-14	Water	04/16/19 19:32	04/22/19 17:15	
400-169112-11	AZ09862 MW-16D	Water	04/17/19 10:07	04/22/19 17:15	
400-169112-12	AZ09863 MW-2	Water	04/17/19 13:25	04/22/19 17:15	
400-169112-13	AZ09864 MW-19	Water	04/17/19 14:34	04/22/19 17:15	
400-169112-14	AZ09865 MW-18	Water	04/17/19 18:08	04/22/19 17:15	
400-169112-15	AZ09866 MW-18-DUP	Water	04/17/19 18:08	04/22/19 17:15	
400-169112-16	AZ09867 EB-1	Water	04/17/19 18:15	04/22/19 17:15	
400-169112-17	AZ09868 MW-17	Water	04/17/19 09:18	04/22/19 17:15	
400-169112-18	AZ09869 MW-15	Water	04/17/19 13:27	04/22/19 17:15	
400-169112-19	AZ09870 MW-21	Water	04/17/19 15:25	04/22/19 17:15	
400-169112-20	AZ09871 FB-1	Water	04/17/19 16:00	04/22/19 17:15	
400-169112-21	AZ10374 MW-7	Water	04/23/19 10:37	04/29/19 15:30	
400-169112-22	AZ10375 MW-7 DISS	Water	04/23/19 10:37	04/29/19 15:30	

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09852 MW-6D

Lab Sample ID: 400-169112-1

Date Collected: 04/16/19 10:41

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.237		0.104	0.106	1.00	0.115	pCi/L	05/30/19 08:33	08/01/19 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					05/30/19 08:33	08/01/19 15:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.290	U	0.285	0.287	1.00	0.461	pCi/L	05/30/19 10:03	07/16/19 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					05/30/19 10:03	07/16/19 12:41	1
Y Carrier	82.2		40 - 110					05/30/19 10:03	07/16/19 12:41	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	0.528		0.303	0.306	5.00	0.461	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09853 MW-6D DUP

Lab Sample ID: 400-169112-2

Date Collected: 04/16/19 10:41

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174		0.0958	0.0971	1.00	0.116	pCi/L	05/30/19 08:33	08/01/19 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/30/19 08:33	08/01/19 15:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.338	0.338	1.00	0.576	pCi/L	05/30/19 10:03	07/16/19 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/30/19 10:03	07/16/19 12:41	1
Y Carrier	86.4		40 - 110					05/30/19 10:03	07/16/19 12:41	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	0.353	U	0.351	0.352	5.00	0.576	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09854 MW-6S

Lab Sample ID: 400-169112-3

Date Collected: 04/16/19 11:43

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.119	0.122	1.00	0.118	pCi/L	05/29/19 08:36	07/31/19 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					05/29/19 08:36	07/31/19 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.804		0.370	0.377	1.00	0.523	pCi/L	05/29/19 09:37	07/12/19 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					05/29/19 09:37	07/12/19 12:20	1
Y Carrier	81.1		40 - 110					05/29/19 09:37	07/12/19 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.11		0.389	0.396	5.00	0.523	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09855 FB-2

Lab Sample ID: 400-169112-4

Date Collected: 04/16/19 12:07

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0305	U	0.0740	0.0740	1.00	0.137	pCi/L	05/29/19 08:36	07/31/19 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					05/29/19 08:36	07/31/19 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.640		0.381	0.385	1.00	0.584	pCi/L	05/29/19 09:37	07/12/19 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					05/29/19 09:37	07/12/19 12:20	1
Y Carrier	86.4		40 - 110					05/29/19 09:37	07/12/19 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.670		0.388	0.392	5.00	0.584	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09856 MW-8

Lab Sample ID: 400-169112-5

Date Collected: 04/16/19 12:58

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0257	U	0.0688	0.0689	1.00	0.127	pCi/L	05/29/19 08:36	07/31/19 13:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					05/29/19 08:36	07/31/19 13:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.707		0.351	0.357	1.00	0.513	pCi/L	05/29/19 09:37	07/12/19 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					05/29/19 09:37	07/12/19 12:20	1
Y Carrier	83.7		40 - 110					05/29/19 09:37	07/12/19 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.733		0.358	0.364	5.00	0.513	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09857 MW-9

Lab Sample ID: 400-169112-6

Date Collected: 04/16/19 14:14

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0420	U	0.0667	0.0668	1.00	0.116	pCi/L	05/29/19 08:36	07/31/19 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/29/19 08:36	07/31/19 13:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.107	U	0.367	0.367	1.00	0.669	pCi/L	05/29/19 09:37	07/12/19 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/29/19 09:37	07/12/19 12:20	1
Y Carrier	82.6		40 - 110					05/29/19 09:37	07/12/19 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0650	U	0.373	0.373	5.00	0.669	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09858 MW-11

Lab Sample ID: 400-169112-7

Date Collected: 04/16/19 15:38

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.169		0.0881	0.0894	1.00	0.0990	pCi/L	05/29/19 08:36	07/31/19 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					05/29/19 08:36	07/31/19 13:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.440	U	0.500	0.502	1.00	0.823	pCi/L	05/29/19 09:37	07/12/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					05/29/19 09:37	07/12/19 13:51	1
Y Carrier	85.2		40 - 110					05/29/19 09:37	07/12/19 13:51	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	0.609	U	0.508	0.510	5.00	0.823	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09859 MW-12

Lab Sample ID: 400-169112-8

Date Collected: 04/16/19 17:14

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.156		0.0994	0.100	1.00	0.135	pCi/L	05/29/19 08:36	07/31/19 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/29/19 08:36	07/31/19 13:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0280	U	0.454	0.454	1.00	0.803	pCi/L	05/29/19 09:37	07/12/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/29/19 09:37	07/12/19 13:51	1
Y Carrier	79.6		40 - 110					05/29/19 09:37	07/12/19 13:51	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	0.184	U	0.465	0.465	5.00	0.803	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09860 MW-13

Lab Sample ID: 400-169112-9

Date Collected: 04/16/19 18:11

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0597	U	0.0796	0.0798	1.00	0.133	pCi/L	05/29/19 08:36	07/31/19 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					05/29/19 08:36	07/31/19 13:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.447	U	0.445	0.447	1.00	0.723	pCi/L	05/29/19 09:37	07/12/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					05/29/19 09:37	07/12/19 13:51	1
Y Carrier	79.6		40 - 110					05/29/19 09:37	07/12/19 13:51	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	0.506	U	0.452	0.454	5.00	0.723	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09861 MW-14

Lab Sample ID: 400-169112-10

Date Collected: 04/16/19 19:32

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.0811	0.0817	1.00	0.113	pCi/L	05/29/19 08:36	07/31/19 13:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/29/19 08:36	07/31/19 13:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.299	U	0.446	0.446	1.00	0.747	pCi/L	05/29/19 09:37	07/12/19 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/29/19 09:37	07/12/19 13:52	1
Y Carrier	86.7		40 - 110					05/29/19 09:37	07/12/19 13:52	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	0.408	U	0.453	0.453	5.00	0.747	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09862 MW-16D

Lab Sample ID: 400-169112-11

Date Collected: 04/17/19 10:07

Matrix: Water

Date Received: 04/22/19 17:15

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	0.0941	0.0945	1.00	0.144	pCi/L	05/29/19 08:36	07/31/19 13:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/29/19 08:36	07/31/19 13:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0193	U	0.402	0.402	1.00	0.715	pCi/L	05/29/19 09:37	07/12/19 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/29/19 09:37	07/12/19 13:52	1
Y Carrier	83.7		40 - 110					05/29/19 09:37	07/12/19 13:52	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	0.121	U	0.413	0.413	5.00	0.715	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09863 MW-2

Lab Sample ID: 400-169112-12

Date Collected: 04/17/19 13:25

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0139	U	0.0578	0.0579	1.00	0.115	pCi/L	05/29/19 08:36	07/31/19 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					05/29/19 08:36	07/31/19 15:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0766	U	0.381	0.381	1.00	0.671	pCi/L	05/29/19 09:37	07/12/19 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					05/29/19 09:37	07/12/19 13:52	1
Y Carrier	85.2		40 - 110					05/29/19 09:37	07/12/19 13:52	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	0.0905	U	0.385	0.385	5.00	0.671	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09864 MW-19

Lab Sample ID: 400-169112-13

Date Collected: 04/17/19 14:34

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194		0.0954	0.0970	1.00	0.103	pCi/L	05/29/19 08:36	07/31/19 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					05/29/19 08:36	07/31/19 15:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.312	U	0.405	0.406	1.00	0.673	pCi/L	05/29/19 09:37	07/12/19 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					05/29/19 09:37	07/12/19 13:52	1
Y Carrier	84.1		40 - 110					05/29/19 09:37	07/12/19 13:52	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	0.507	U	0.416	0.417	5.00	0.673	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09865 MW-18

Lab Sample ID: 400-169112-14

Date Collected: 04/17/19 18:08

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0901	U	0.0831	0.0835	1.00	0.128	pCi/L	05/29/19 08:36	07/31/19 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					05/29/19 08:36	07/31/19 15:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.106	U	0.350	0.350	1.00	0.609	pCi/L	05/29/19 09:37	07/12/19 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					05/29/19 09:37	07/12/19 13:52	1
Y Carrier	89.0		40 - 110					05/29/19 09:37	07/12/19 13:52	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	0.196	U	0.360	0.360	5.00	0.609	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09866 MW-18-DUP

Lab Sample ID: 400-169112-15

Date Collected: 04/17/19 18:08

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0671	U	0.0801	0.0804	1.00	0.131	pCi/L	05/29/19 08:36	07/31/19 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/29/19 08:36	07/31/19 15:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.186	U	0.364	0.364	1.00	0.620	pCi/L	05/29/19 09:37	07/12/19 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/29/19 09:37	07/12/19 13:52	1
Y Carrier	86.0		40 - 110					05/29/19 09:37	07/12/19 13:52	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	0.253	U	0.373	0.373	5.00	0.620	pCi/L		08/01/19 08:05	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09867 EB-1

Lab Sample ID: 400-169112-16

Date Collected: 04/17/19 18:15

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0100	U	0.0665	0.0665	1.00	0.141	pCi/L	05/30/19 08:33	08/01/19 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					05/30/19 08:33	08/01/19 09:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.277	U	0.355	0.356	1.00	0.590	pCi/L	05/30/19 10:03	07/16/19 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					05/30/19 10:03	07/16/19 12:35	1
Y Carrier	83.4		40 - 110					05/30/19 10:03	07/16/19 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.267	U	0.361	0.362	5.00	0.590	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09868 MW-17

Lab Sample ID: 400-169112-17

Date Collected: 04/17/19 09:18

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.000922	U	0.0612	0.0612	1.00	0.129	pCi/L	05/30/19 08:33	08/01/19 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					05/30/19 08:33	08/01/19 09:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0103	U	0.371	0.371	1.00	0.660	pCi/L	05/30/19 10:03	07/16/19 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					05/30/19 10:03	07/16/19 12:35	1
Y Carrier	81.1		40 - 110					05/30/19 10:03	07/16/19 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00935	U	0.376	0.376	5.00	0.660	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09869 MW-15

Lab Sample ID: 400-169112-18

Date Collected: 04/17/19 13:27

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0383	U	0.0633	0.0634	1.00	0.111	pCi/L	05/30/19 08:33	08/01/19 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					05/30/19 08:33	08/01/19 09:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.148	U	0.292	0.292	1.00	0.551	pCi/L	05/30/19 10:03	07/16/19 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					05/30/19 10:03	07/16/19 12:35	1
Y Carrier	82.2		40 - 110					05/30/19 10:03	07/16/19 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.110	U	0.299	0.299	5.00	0.551	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09870 MW-21

Lab Sample ID: 400-169112-19

Date Collected: 04/17/19 15:25

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.248		0.125	0.127	1.00	0.152	pCi/L	05/30/19 08:33	08/01/19 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					05/30/19 08:33	08/01/19 09:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.342	0.342	1.00	0.575	pCi/L	05/30/19 10:03	07/16/19 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					05/30/19 10:03	07/16/19 12:36	1
Y Carrier	84.5		40 - 110					05/30/19 10:03	07/16/19 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.470	U	0.364	0.365	5.00	0.575	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09871 FB-1

Lab Sample ID: 400-169112-20

Date Collected: 04/17/19 16:00

Matrix: Water

Date Received: 04/22/19 17:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00715	U	0.0493	0.0493	1.00	0.104	pCi/L	05/30/19 08:33	08/01/19 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					05/30/19 08:33	08/01/19 11:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.158	U	0.408	0.408	1.00	0.701	pCi/L	05/30/19 10:03	07/16/19 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					05/30/19 10:03	07/16/19 12:36	1
Y Carrier	76.6		40 - 110					05/30/19 10:03	07/16/19 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.165	U	0.411	0.411	5.00	0.701	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ10374 MW-7

Lab Sample ID: 400-169112-21

Date Collected: 04/23/19 10:37

Matrix: Water

Date Received: 04/29/19 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.208		0.111	0.113	1.00	0.141	pCi/L	05/30/19 08:33	08/01/19 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					05/30/19 08:33	08/01/19 11:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.686		0.359	0.365	1.00	0.525	pCi/L	05/30/19 10:03	07/16/19 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					05/30/19 10:03	07/16/19 12:36	1
Y Carrier	83.0		40 - 110					05/30/19 10:03	07/16/19 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.894		0.376	0.382	5.00	0.525	pCi/L		08/02/19 10:35	1

Client Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ10375 MW-7 DISS

Lab Sample ID: 400-169112-22

Date Collected: 04/23/19 10:37

Matrix: Water

Date Received: 04/29/19 15:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.000864	U	0.0573	0.0573	1.00	0.121	pCi/L	05/30/19 08:33	08/01/19 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					05/30/19 08:33	08/01/19 11:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0411	U	0.301	0.301	1.00	0.533	pCi/L	05/30/19 10:03	07/16/19 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					05/30/19 10:03	07/16/19 12:36	1
Y Carrier	89.7		40 - 110					05/30/19 10:03	07/16/19 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0403	U	0.306	0.306	5.00	0.533	pCi/L		08/02/19 10:35	1

Definitions/Glossary

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

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 Gorgas

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09852 MW-6D

Lab Sample ID: 400-169112-1

Date Collected: 04/16/19 10:41

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 15:07	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	434918	07/16/19 12:41	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Client Sample ID: AZ09853 MW-6D DUP

Lab Sample ID: 400-169112-2

Date Collected: 04/16/19 10:41

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 15:07	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	434918	07/16/19 12:41	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Client Sample ID: AZ09854 MW-6S

Lab Sample ID: 400-169112-3

Date Collected: 04/16/19 11:43

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 10:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434754	07/12/19 12:20	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09855 FB-2

Lab Sample ID: 400-169112-4

Date Collected: 04/16/19 12:07

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437386	07/31/19 10:15	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434754	07/12/19 12:20	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09856 MW-8

Lab Sample ID: 400-169112-5

Date Collected: 04/16/19 12:58

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437386	07/31/19 13:11	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434754	07/12/19 12:20	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09857 MW-9

Lab Sample ID: 400-169112-6

Date Collected: 04/16/19 14:14

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 13:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434754	07/12/19 12:20	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09858 MW-11

Lab Sample ID: 400-169112-7

Date Collected: 04/16/19 15:38

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 13:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:51	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09859 MW-12

Lab Sample ID: 400-169112-8

Date Collected: 04/16/19 17:14

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 13:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:51	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09860 MW-13

Lab Sample ID: 400-169112-9

Date Collected: 04/16/19 18:11

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 13:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:51	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09861 MW-14

Lab Sample ID: 400-169112-10

Date Collected: 04/16/19 19:32

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 13:14	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:52	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09862 MW-16D

Lab Sample ID: 400-169112-11

Date Collected: 04/17/19 10:07

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437386	07/31/19 13:11	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:52	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09863 MW-2

Lab Sample ID: 400-169112-12

Date Collected: 04/17/19 13:25

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 15:07	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:52	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09864 MW-19

Lab Sample ID: 400-169112-13

Date Collected: 04/17/19 14:34

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 15:07	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:52	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09865 MW-18

Lab Sample ID: 400-169112-14

Date Collected: 04/17/19 18:08

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 15:07	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:52	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09866 MW-18-DUP

Lab Sample ID: 400-169112-15

Date Collected: 04/17/19 18:08

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430108	05/29/19 08:36	EJQ	TAL SL
Total/NA	Analysis	9315		1	437243	07/31/19 15:07	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430118	05/29/19 09:37	EJQ	TAL SL
Total/NA	Analysis	9320		1	434752	07/12/19 13:52	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437438	08/01/19 08:05	SMP	TAL SL

Client Sample ID: AZ09867 EB-1

Lab Sample ID: 400-169112-16

Date Collected: 04/17/19 18:15

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 09:22	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:35	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ09868 MW-17

Lab Sample ID: 400-169112-17

Date Collected: 04/17/19 09:18

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 09:24	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:35	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Client Sample ID: AZ09869 MW-15

Lab Sample ID: 400-169112-18

Date Collected: 04/17/19 13:27

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 09:24	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:35	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Client Sample ID: AZ09870 MW-21

Lab Sample ID: 400-169112-19

Date Collected: 04/17/19 15:25

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437593	08/01/19 09:26	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:36	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Client Sample ID: AZ09871 FB-1

Lab Sample ID: 400-169112-20

Date Collected: 04/17/19 16:00

Matrix: Water

Date Received: 04/22/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 11:22	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:36	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Client Sample ID: AZ10374 MW-7

Lab Sample ID: 400-169112-21

Date Collected: 04/23/19 10:37

Matrix: Water

Date Received: 04/29/19 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 11:23	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:36	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Client Sample ID: AZ10375 MW-7 DISS

Lab Sample ID: 400-169112-22

Date Collected: 04/23/19 10:37

Matrix: Water

Date Received: 04/29/19 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			430215	05/30/19 08:33	EJQ	TAL SL
Total/NA	Analysis	9315		1	437612	08/01/19 11:23	CDR	TAL SL
Total/NA	Prep	PrecSep_0			430233	05/30/19 10:03	EJQ	TAL SL
Total/NA	Analysis	9320		1	435022	07/16/19 12:36	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	437725	08/02/19 10:35	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Rad

Prep Batch: 430108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169112-3	AZ09854 MW-6S	Total/NA	Water	PrecSep-21	
400-169112-4	AZ09855 FB-2	Total/NA	Water	PrecSep-21	
400-169112-5	AZ09856 MW-8	Total/NA	Water	PrecSep-21	
400-169112-6	AZ09857 MW-9	Total/NA	Water	PrecSep-21	
400-169112-7	AZ09858 MW-11	Total/NA	Water	PrecSep-21	
400-169112-8	AZ09859 MW-12	Total/NA	Water	PrecSep-21	
400-169112-9	AZ09860 MW-13	Total/NA	Water	PrecSep-21	
400-169112-10	AZ09861 MW-14	Total/NA	Water	PrecSep-21	
400-169112-11	AZ09862 MW-16D	Total/NA	Water	PrecSep-21	
400-169112-12	AZ09863 MW-2	Total/NA	Water	PrecSep-21	
400-169112-13	AZ09864 MW-19	Total/NA	Water	PrecSep-21	
400-169112-14	AZ09865 MW-18	Total/NA	Water	PrecSep-21	
400-169112-15	AZ09866 MW-18-DUP	Total/NA	Water	PrecSep-21	
MB 160-430108/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-430108/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-169112-9 DU	AZ09860 MW-13	Total/NA	Water	PrecSep-21	

Prep Batch: 430118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169112-3	AZ09854 MW-6S	Total/NA	Water	PrecSep_0	
400-169112-4	AZ09855 FB-2	Total/NA	Water	PrecSep_0	
400-169112-5	AZ09856 MW-8	Total/NA	Water	PrecSep_0	
400-169112-6	AZ09857 MW-9	Total/NA	Water	PrecSep_0	
400-169112-7	AZ09858 MW-11	Total/NA	Water	PrecSep_0	
400-169112-8	AZ09859 MW-12	Total/NA	Water	PrecSep_0	
400-169112-9	AZ09860 MW-13	Total/NA	Water	PrecSep_0	
400-169112-10	AZ09861 MW-14	Total/NA	Water	PrecSep_0	
400-169112-11	AZ09862 MW-16D	Total/NA	Water	PrecSep_0	
400-169112-12	AZ09863 MW-2	Total/NA	Water	PrecSep_0	
400-169112-13	AZ09864 MW-19	Total/NA	Water	PrecSep_0	
400-169112-14	AZ09865 MW-18	Total/NA	Water	PrecSep_0	
400-169112-15	AZ09866 MW-18-DUP	Total/NA	Water	PrecSep_0	
MB 160-430118/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-430118/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-169112-9 DU	AZ09860 MW-13	Total/NA	Water	PrecSep_0	

Prep Batch: 430215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169112-1	AZ09852 MW-6D	Total/NA	Water	PrecSep-21	
400-169112-2	AZ09853 MW-6D DUP	Total/NA	Water	PrecSep-21	
400-169112-16	AZ09867 EB-1	Total/NA	Water	PrecSep-21	
400-169112-17	AZ09868 MW-17	Total/NA	Water	PrecSep-21	
400-169112-18	AZ09869 MW-15	Total/NA	Water	PrecSep-21	
400-169112-19	AZ09870 MW-21	Total/NA	Water	PrecSep-21	
400-169112-20	AZ09871 FB-1	Total/NA	Water	PrecSep-21	
400-169112-21	AZ10374 MW-7	Total/NA	Water	PrecSep-21	
400-169112-22	AZ10375 MW-7 DISS	Total/NA	Water	PrecSep-21	
MB 160-430215/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-430215/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-169314-B-2-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
400-169314-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

QC Association Summary

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

Rad (Continued)

Prep Batch: 430215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169112-18 DU	AZ09869 MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 430233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-169112-1	AZ09852 MW-6D	Total/NA	Water	PrecSep_0	
400-169112-2	AZ09853 MW-6D DUP	Total/NA	Water	PrecSep_0	
400-169112-16	AZ09867 EB-1	Total/NA	Water	PrecSep_0	
400-169112-17	AZ09868 MW-17	Total/NA	Water	PrecSep_0	
400-169112-18	AZ09869 MW-15	Total/NA	Water	PrecSep_0	
400-169112-19	AZ09870 MW-21	Total/NA	Water	PrecSep_0	
400-169112-20	AZ09871 FB-1	Total/NA	Water	PrecSep_0	
400-169112-21	AZ10374 MW-7	Total/NA	Water	PrecSep_0	
400-169112-22	AZ10375 MW-7 DISS	Total/NA	Water	PrecSep_0	
MB 160-430233/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-430233/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-169314-B-2-H MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-169314-B-2-I MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
400-169112-18 DU	AZ09869 MW-15	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-430108/24-A
Matrix: Water
Analysis Batch: 437243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430108

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.007540	U	0.0581	0.0581	1.00	0.117	pCi/L	05/29/19 08:36	07/31/19 15:07	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/29/19 08:36	07/31/19 15:07	1
	95.8									

Lab Sample ID: LCS 160-430108/1-A
Matrix: Water
Analysis Batch: 437243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430108

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	12.95		1.34	1.00	0.119	pCi/L	86	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	93.5								

Lab Sample ID: 400-169112-9 DU
Matrix: Water
Analysis Batch: 437243

Client Sample ID: AZ09860 MW-13
Prep Type: Total/NA
Prep Batch: 430108

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0597	U	0.09278	U	0.0803	1.00	0.119	pCi/L	0.21	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	93.8									

Lab Sample ID: MB 160-430215/24-A
Matrix: Water
Analysis Batch: 437612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430215

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02675	U	0.0459	0.0459	1.00	0.0816	pCi/L	05/30/19 08:33	08/01/19 17:57	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/30/19 08:33	08/01/19 17:57	1
	84.7									

Lab Sample ID: LCS 160-430215/1-A
Matrix: Water
Analysis Batch: 437612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430215

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	10.60		1.09	1.00	0.0757	pCi/L	93	75 - 125

Eurofins TestAmerica, Pensacola

QC Sample Results

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

Job ID: 400-169112-1
SDG: Gorgas Ash Pond 1216

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

Lab Sample ID: LCS 160-430215/1-A
Matrix: Water
Analysis Batch: 437612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430215

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.5		40 - 110

Lab Sample ID: 400-169314-B-2-B MS
Matrix: Water
Analysis Batch: 437612

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 430215

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
												RER	Limit
Radium-226	0.00156	U	11.3	10.36		1.07	1.00	0.0875	pCi/L	91	75 - 138		
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	89.5		40 - 110										

Lab Sample ID: 400-169314-B-2-C MSD
Matrix: Water
Analysis Batch: 437612

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 430215

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	0.00156	U	11.3	9.524		1.00	1.00	0.0812	pCi/L	84	75 - 138	0.40	1
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	85.3		40 - 110										

Lab Sample ID: 400-169112-18 DU
Matrix: Water
Analysis Batch: 437587

Client Sample ID: AZ09869 MW-15
Prep Type: Total/NA
Prep Batch: 430215

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER	
										Limit	
Radium-226	0.0383	U	0.06625	U	0.0894	1.00	0.150	pCi/L	0.18	1	
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	84.2		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-430118/24-A
Matrix: Water
Analysis Batch: 434753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430118

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-228	0.03246	U	0.375	0.375	1.00	0.657	pCi/L	05/29/19 09:37	07/12/19 12:08	1
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Ba Carrier	95.8		40 - 110	05/29/19 09:37	07/12/19 12:08	1				

Eurofins TestAmerica, Pensacola

QC Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

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

Lab Sample ID: MB 160-430118/24-A
Matrix: Water
Analysis Batch: 434753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430118

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	83.0		40 - 110	05/29/19 09:37	07/12/19 12:08	1

Lab Sample ID: LCS 160-430118/1-A
Matrix: Water
Analysis Batch: 434787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430118

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	12.0	11.80		1.41	1.00	0.511	pCi/L	98	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 400-169112-9 DU
Matrix: Water
Analysis Batch: 434752

Client Sample ID: AZ09860 MW-13
Prep Type: Total/NA
Prep Batch: 430118

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.447	U	0.2326	U	0.423	1.00	0.715	pCi/L	0.25	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.8		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: MB 160-430233/24-A
Matrix: Water
Analysis Batch: 435021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430233

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.07299	U	0.288	0.288	1.00	0.524	pCi/L	05/30/19 10:03	07/16/19 12:32	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110	05/30/19 10:03	07/16/19 12:32	1
Y Carrier	84.1		40 - 110	05/30/19 10:03	07/16/19 12:32	1

Lab Sample ID: LCS 160-430233/1-A
Matrix: Water
Analysis Batch: 435022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430233

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.02	8.768		1.06	1.00	0.457	pCi/L	97	75 - 125

QC Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

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

Lab Sample ID: LCS 160-430233/1-A
Matrix: Water
Analysis Batch: 435022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430233

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.5		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: 400-169314-B-2-H MS
Matrix: Water
Analysis Batch: 435022

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 430233

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
	Result	Qual		Result	Qual							
Radium-228	-0.0232	U	9.02	8.181		1.02	1.00	0.462	pCi/L	91	45 - 150	

Carrier	MS		Limits
	%Yield	Qualifier	
Ba Carrier	89.5		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: 400-169314-B-2-I MSD
Matrix: Water
Analysis Batch: 435021

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 430233

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	RER	Limit
	Result	Qual		Result	Qual									
Radium-228	-0.0232	U	9.01	9.256		1.12	1.00	0.491	pCi/L	103	45 - 150	0.50	1	

Carrier	MSD		Limits
	%Yield	Qualifier	
Ba Carrier	85.3		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: 400-169112-18 DU
Matrix: Water
Analysis Batch: 435022

Client Sample ID: AZ09869 MW-15
Prep Type: Total/NA
Prep Batch: 430233

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER	Limit
	Result	Qual		Result							
Radium-228	-0.148	U	0.3146	U	0.391	1.00	0.647	pCi/L	0.68	1	

Carrier	DU		Limits
	%Yield	Qualifier	
Ba Carrier	84.2		40 - 110
Y Carrier	75.9		40 - 110

QC Sample Results

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

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

Lab Sample ID: 400-169112-9 DU
Matrix: Water
Analysis Batch: 437438

Client Sample ID: AZ09860 MW-13
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	U	0.3254	U	0.431	5.00	0.715	pCi/L	0.20	

Lab Sample ID: 400-169112-18 DU
Matrix: Water
Analysis Batch: 437725

Client Sample ID: AZ09869 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	-0.110	U	0.3808	U	0.401	5.00	0.647	pCi/L	0.70	

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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 (Sub Contract Lab)		Sampler: Anthony Goggins		Lab PM: Whitmire, Chyenne R		Carrier Tracking Note(s)	
Client Contact: Laura Miedorf		Phone:		E-Mail: chyenne.whitmire@testamericainc.com		State of Origin: Alabama	
Company: Alabama Power General Test Laboratory		Due Date Requested:		Accreditations Required (See note)		COC No: 400-56525-24537.1	
Address: 744 County Rd 87 GSC#8		TAT Requested (days):		Analysis Requested		Page: Page 1 of 2	
City: Calera		Routine		915_Ra226_9320_Ra228_Ra226Ra228_GFP		Job #:	
State, Zip: AL 35040		Sample Date		SM 4500 F.C		Preservation Codes:	
Phone: 205-664-6197		Sample Time		SM 4500 CL.E		M - Hexene N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetic Acid V - MCA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)	
Email: lamiedorf@southpower.com		Sample Type (C=comp, G=grab)		SM 4500 S.O4.E		Other:	
Project Name: CCR		Matrix (Water, Solid, Smelt, Slurry, Other)		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site: Gorgas Ash Pond 1216		Preservation Code		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
		AZ09852		X		1 MW-6D	
		AZ09853		X		1 MW-6D DUP (Sample Duplicate)	
		AZ09854		X		1 MW-6S	
		AZ09855		X		1 FB-2 (Field Blank)	
		AZ09856		X		1 MW-8	
		AZ09857		X		1 MW-9	
		AZ09858		X		1 MW-11	
		AZ09859		X		1 MW-12	
		AZ09860		X		1 MW-13	
		AZ09861		X		1 MW-14	
		AZ09862		X		1 MW-16D	
		AZ09863		X		1 MW-2	
		AZ09864		X		1 MW-19	
		AZ09865		X		1 MW-18	
		AZ09866		X		1 MW-18 DUP (Sample Duplicate)	
		AZ09867		X		1 EB-1 (Equipment Blank)	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Bank - 2

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

Relinquished by: Laura Miedorf	Date: 04/16/2019 16:10	Water	APC	Company	Company	Received by: <i>Laura Miedorf</i>	Date/Time: 4-22-19 17:15	Company: TA
Relinquished by:	Date/Time:	Water	APC	Company	Company	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Water	APC	Company	Company	Received by:	Date/Time:	Company:

Custody Seals Intact: Custody Seal No.: 22,1, 21, 8, C Ver: 09/20/2016

TestAmerica Pensacola

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

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Lab PM: Whitmore, Chyenne R		Carrier Tracking Note:	
Client Contact: Laura Midkiff		Phone:		Page: Page 1 of 1	
Address: Alabama Power General Test Laboratory 744 County Rd B7 GSC#8 Callera State Zn AL 35040		E-Mail: cheyenne.whitmore@testamerica.com		Job #:	
Phone: 205-564-6197		Accreditations Required (See Note):		Preservation Codes: M - Hexane N - NaOH O - Na2O2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - Water W - MDA X - EDTA Y - other (specify) Z - other (specify)	
Project Name: CCR		Due Date Requested:		Analysis Re	
Site: Gorgas Ash Pond 1216		TAT Requested (days): Routine		915_Ra228_920_Ra228_Ra228Ra228_GFPc	
Project #: 40007143		PO #:		SM 4500 F.C	
SSOW#:		WO #:		SM 4500 CL.E	
Sample Identification - Client ID (Lab ID)		Sample Date		Field Filtered Sample (Yes or No)	
AZ10374	4/23/19	10:37	G	Water	X
AZ10375	4/23/19	10:37	G	Water	X
Sample Type (C=comp, G=grab)		Sample Time		Performs MS/MSD (Yes or No)	
Matrix (Residue, Swab, Spill, etc.)		Preservation Code		SM 4500 SO4.E	
Special Instructions/Note:		Total Number of Containers		1 MN-7	
		1 MN-7 Dics			

23.7°C
MS

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Deliverable Requested I, III, IV, Other (specify): Primax Deliverable Rank 2

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

Relinquished By: Laura Midkiff
 Date/Time: 04/25/2019 15:55
 Date/Time: _____
 Date/Time: _____

Received By: _____
 Date/Time: 4/29/19 15:30
 Date/Time: _____

Company: _____
 Company: _____
 Company: _____

Custody Seal Intact: _____ **Custody Seal No.:** _____

Method of Shipment: _____
Receiver: _____
Received By: _____
Received By: _____

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-169112-1
SDG Number: Gorgas Ash Pond 1216

Login Number: 169112

List Number: 1

Creator: Shannon, Jonathon W

List Source: Eurofins 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	22.1°C, 21.8°C IR8
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	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-169112-1
SDG Number: Gorgas Ash Pond 1216

Login Number: 169112

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/26/19 03:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-169112-1
SDG Number: Gorgas Ash Pond 1216

Login Number: 169112

List Number: 3

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/02/19 12:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	21.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Laboratory: Eurofins 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		40150	07-01-20
Alabama	State Program	4	40150	06-30-20
ANAB	ISO/IEC 17025		L2471	02-22-20
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State		AZ0710	01-12-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-20
Florida	NELAP	4	E81010	06-30-20
Florida	NELAP		E81010	06-30-20
Georgia	State Program	4	E81010 (FL)	06-30-20
Illinois	NELAP	5	200041	10-09-19
Illinois	NELAP		004586	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-20
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-20
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-20
Massachusetts	State Program	1	M-FL094	06-30-20
Michigan	State		9912	05-06-20
Michigan	State Program	5	9912	05-06-20
New Jersey	NELAP	2	FL006	06-30-20
New Jersey	NELAP		FL006	07-30-20
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State		9810-186	08-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Pennsylvania	NELAP		68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19 *
Tennessee	State Program	4	TN02907	06-30-20
Texas	NELAP	6	T104704286-18-15	09-30-19
Texas	NELAP		T104704286	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-20
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-20
Washington	State Program	10	C915	05-15-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

Job ID: 400-169112-1
 SDG: Gorgas Ash Pond 1216

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP		L2305	04-06-22
ANAB	DoD		L2305	04-06-22
ANAB	DOE		L2305.01	04-06-22
Arizona	State		AZ0813	12-08-19
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-20
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-20
Florida	NELAP		E87689	06-30-20
Hawaii	State Program	9	NA	06-30-19 *
Illinois	NELAP	5	200023	11-30-19
Illinois	NELAP		004553	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State		KY90125	12-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-20
Louisiana (DW)	NELAP	6	LA011	12-31-19
Louisiana (DW)	State		LA011	12-31-19
Maryland	State		310	09-30-20
Maryland	State Program	3	310	09-30-20
Michigan	State Program	5	9005	06-30-19 *
Missouri	State		780	06-30-22
Missouri	State Program	7	780	06-30-20
New Jersey	NELAP	2	MO002	06-30-20
New Jersey	NELAP		MO002	06-30-20
New York	NELAP	2	11616	03-31-20
New York	NELAP		11616	04-01-20
North Dakota	State Program	8	R207	06-30-20
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State		9997	08-31-19
Oklahoma	State Program	6	9997	08-31-19 *
Pennsylvania	NELAP	3	68-00540	02-28-20
Pennsylvania	NELAP		68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-20
Texas	NELAP	6	T104704193-18-13	07-31-19 *
Texas	NELAP		T104704193-19-13	07-31-20
US Fish & Wildlife	Federal		058448	07-31-20
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19 *
Virginia	NELAP	3	460230	06-14-20
Virginia	NELAP		10310	06-14-20
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-11	4/16/2019 15:05	Conductivity	423.3	uS/cm
GS-AP-MW-11	4/16/2019 15:05	Depth to Water Detail	87.74	ft
GS-AP-MW-11	4/16/2019 15:05	DO	1.54	mg/L
GS-AP-MW-11	4/16/2019 15:05	Oxidation Reduction Potention	-32	mv
GS-AP-MW-11	4/16/2019 15:05	pH	7.05	pH
GS-AP-MW-11	4/16/2019 15:05	Temperature	19.83	C
GS-AP-MW-11	4/16/2019 15:05	Turbidity	4.77	NTU
GS-AP-MW-11	4/16/2019 15:10	Conductivity	418.2	uS/cm
GS-AP-MW-11	4/16/2019 15:10	Depth to Water Detail	88.06	ft
GS-AP-MW-11	4/16/2019 15:10	DO	0.9	mg/L
GS-AP-MW-11	4/16/2019 15:10	Oxidation Reduction Potention	-5.6	mv
GS-AP-MW-11	4/16/2019 15:10	pH	6.98	pH
GS-AP-MW-11	4/16/2019 15:10	Temperature	19.57	C
GS-AP-MW-11	4/16/2019 15:10	Turbidity	4.41	NTU
GS-AP-MW-11	4/16/2019 15:15	Conductivity	415.9	uS/cm
GS-AP-MW-11	4/16/2019 15:15	Depth to Water Detail	88.52	ft
GS-AP-MW-11	4/16/2019 15:15	DO	0.76	mg/L
GS-AP-MW-11	4/16/2019 15:15	Oxidation Reduction Potention	9.2	mv
GS-AP-MW-11	4/16/2019 15:15	pH	6.95	pH
GS-AP-MW-11	4/16/2019 15:15	Temperature	19.7	C
GS-AP-MW-11	4/16/2019 15:15	Turbidity	2.84	NTU
GS-AP-MW-11	4/16/2019 15:20	Conductivity	414.7	uS/cm
GS-AP-MW-11	4/16/2019 15:20	Depth to Water Detail	88.79	ft
GS-AP-MW-11	4/16/2019 15:20	DO	0.7	mg/L
GS-AP-MW-11	4/16/2019 15:20	Oxidation Reduction Potention	15.7	mv
GS-AP-MW-11	4/16/2019 15:20	pH	6.94	pH
GS-AP-MW-11	4/16/2019 15:20	Temperature	19.69	C
GS-AP-MW-11	4/16/2019 15:20	Turbidity	3.07	NTU
GS-AP-MW-11	4/16/2019 15:25	Conductivity	414.8	uS/cm
GS-AP-MW-11	4/16/2019 15:25	Depth to Water Detail	89.02	ft
GS-AP-MW-11	4/16/2019 15:25	DO	0.67	mg/L
GS-AP-MW-11	4/16/2019 15:25	Oxidation Reduction Potention	20.4	mv
GS-AP-MW-11	4/16/2019 15:25	pH	6.94	pH
GS-AP-MW-11	4/16/2019 15:25	Temperature	19.68	C
GS-AP-MW-11	4/16/2019 15:25	Turbidity	2.79	NTU
GS-AP-MW-11	4/16/2019 15:30	Conductivity	415.2	uS/cm
GS-AP-MW-11	4/16/2019 15:30	Depth to Water Detail	89.2	ft
GS-AP-MW-11	4/16/2019 15:30	DO	0.66	mg/L
GS-AP-MW-11	4/16/2019 15:30	Oxidation Reduction Potention	22.8	mv
GS-AP-MW-11	4/16/2019 15:30	pH	6.93	pH
GS-AP-MW-11	4/16/2019 15:30	Temperature	19.52	C
GS-AP-MW-11	4/16/2019 15:30	Turbidity	3.37	NTU
GS-AP-MW-11	4/16/2019 15:35	Conductivity	414.4	uS/cm
GS-AP-MW-11	4/16/2019 15:35	Depth to Water Detail	89.25	ft

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-11	4/16/2019 15:35	DO	0.66	mg/L
GS-AP-MW-11	4/16/2019 15:35	Oxidation Reduction Potention	21.7	mv
GS-AP-MW-11	4/16/2019 15:35	pH	6.93	pH
GS-AP-MW-11	4/16/2019 15:35	Temperature	19.66	C
GS-AP-MW-11	4/16/2019 15:35	Turbidity	2.81	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12	4/16/2019 16:37	Conductivity	358.1	uS/cm
GS-AP-MW-12	4/16/2019 16:37	Depth to Water Detail	76.11	ft
GS-AP-MW-12	4/16/2019 16:37	DO	0.68	mg/L
GS-AP-MW-12	4/16/2019 16:37	Oxidation Reduction Potention	-107.8	mv
GS-AP-MW-12	4/16/2019 16:37	pH	7.4	pH
GS-AP-MW-12	4/16/2019 16:37	Temperature	20.5	C
GS-AP-MW-12	4/16/2019 16:37	Turbidity	1.53	NTU
GS-AP-MW-12	4/16/2019 16:42	Conductivity	359.1	uS/cm
GS-AP-MW-12	4/16/2019 16:42	Depth to Water Detail	76.25	ft
GS-AP-MW-12	4/16/2019 16:42	DO	0.63	mg/L
GS-AP-MW-12	4/16/2019 16:42	Oxidation Reduction Potention	-106	mv
GS-AP-MW-12	4/16/2019 16:42	pH	7.42	pH
GS-AP-MW-12	4/16/2019 16:42	Temperature	19.92	C
GS-AP-MW-12	4/16/2019 16:42	Turbidity	1.35	NTU
GS-AP-MW-12	4/16/2019 16:47	Conductivity	359.1	uS/cm
GS-AP-MW-12	4/16/2019 16:47	Depth to Water Detail	76.44	ft
GS-AP-MW-12	4/16/2019 16:47	DO	0.62	mg/L
GS-AP-MW-12	4/16/2019 16:47	Oxidation Reduction Potention	-103.1	mv
GS-AP-MW-12	4/16/2019 16:47	pH	7.42	pH
GS-AP-MW-12	4/16/2019 16:47	Temperature	19.75	C
GS-AP-MW-12	4/16/2019 16:47	Turbidity	1.35	NTU
GS-AP-MW-12	4/16/2019 16:52	Conductivity	358.7	uS/cm
GS-AP-MW-12	4/16/2019 16:52	Depth to Water Detail	76.6	ft
GS-AP-MW-12	4/16/2019 16:52	DO	0.62	mg/L
GS-AP-MW-12	4/16/2019 16:52	Oxidation Reduction Potention	-100.4	mv
GS-AP-MW-12	4/16/2019 16:52	pH	7.43	pH
GS-AP-MW-12	4/16/2019 16:52	Temperature	19.35	C
GS-AP-MW-12	4/16/2019 16:52	Turbidity	1.23	NTU
GS-AP-MW-12	4/16/2019 16:57	Conductivity	359.2	uS/cm
GS-AP-MW-12	4/16/2019 16:57	Depth to Water Detail	76.79	ft
GS-AP-MW-12	4/16/2019 16:57	DO	0.64	mg/L
GS-AP-MW-12	4/16/2019 16:57	Oxidation Reduction Potention	-102.3	mv
GS-AP-MW-12	4/16/2019 16:57	pH	7.42	pH
GS-AP-MW-12	4/16/2019 16:57	Temperature	19.3	C
GS-AP-MW-12	4/16/2019 16:57	Turbidity	1.17	NTU
GS-AP-MW-12	4/16/2019 17:02	Conductivity	358.2	uS/cm
GS-AP-MW-12	4/16/2019 17:02	Depth to Water Detail	76.9	ft
GS-AP-MW-12	4/16/2019 17:02	DO	0.66	mg/L
GS-AP-MW-12	4/16/2019 17:02	Oxidation Reduction Potention	-103.9	mv
GS-AP-MW-12	4/16/2019 17:02	pH	7.41	pH
GS-AP-MW-12	4/16/2019 17:02	Temperature	19.34	C
GS-AP-MW-12	4/16/2019 17:02	Turbidity	1.23	NTU
GS-AP-MW-12	4/16/2019 17:07	Conductivity	358	uS/cm
GS-AP-MW-12	4/16/2019 17:07	Depth to Water Detail	76.91	ft

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12	4/16/2019 17:07	DO	0.72	mg/L
GS-AP-MW-12	4/16/2019 17:07	Oxidation Reduction Potention	-104.3	mv
GS-AP-MW-12	4/16/2019 17:07	pH	7.41	pH
GS-AP-MW-12	4/16/2019 17:07	Temperature	19.57	C
GS-AP-MW-12	4/16/2019 17:07	Turbidity	1.27	NTU
GS-AP-MW-12	4/16/2019 17:12	Conductivity	357.9	uS/cm
GS-AP-MW-12	4/16/2019 17:12	Depth to Water Detail	76.91	ft
GS-AP-MW-12	4/16/2019 17:12	DO	0.74	mg/L
GS-AP-MW-12	4/16/2019 17:12	Oxidation Reduction Potention	-103.5	mv
GS-AP-MW-12	4/16/2019 17:12	pH	7.41	pH
GS-AP-MW-12	4/16/2019 17:12	Temperature	19.74	C
GS-AP-MW-12	4/16/2019 17:12	Turbidity	1.39	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-13	4/16/2019 17:54	Conductivity	324	uS/cm
GS-AP-MW-13	4/16/2019 17:54	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 17:54	DO	0.72	mg/L
GS-AP-MW-13	4/16/2019 17:54	Oxidation Reduction Potential	77.1	mv
GS-AP-MW-13	4/16/2019 17:54	pH	6.69	pH
GS-AP-MW-13	4/16/2019 17:54	Temperature	17.47	C
GS-AP-MW-13	4/16/2019 17:54	Turbidity	1.22	NTU
GS-AP-MW-13	4/16/2019 17:59	Conductivity	324.8	uS/cm
GS-AP-MW-13	4/16/2019 17:59	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 17:59	DO	0.58	mg/L
GS-AP-MW-13	4/16/2019 17:59	Oxidation Reduction Potential	82	mv
GS-AP-MW-13	4/16/2019 17:59	pH	6.65	pH
GS-AP-MW-13	4/16/2019 17:59	Temperature	17.34	C
GS-AP-MW-13	4/16/2019 17:59	Turbidity	2.08	NTU
GS-AP-MW-13	4/16/2019 18:04	Conductivity	327.3	uS/cm
GS-AP-MW-13	4/16/2019 18:04	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 18:04	DO	0.43	mg/L
GS-AP-MW-13	4/16/2019 18:04	Oxidation Reduction Potential	78.9	mv
GS-AP-MW-13	4/16/2019 18:04	pH	6.65	pH
GS-AP-MW-13	4/16/2019 18:04	Temperature	17.16	C
GS-AP-MW-13	4/16/2019 18:04	Turbidity	1.66	NTU
GS-AP-MW-13	4/16/2019 18:09	Conductivity	327.5	uS/cm
GS-AP-MW-13	4/16/2019 18:09	Depth to Water Detail	68.35	ft
GS-AP-MW-13	4/16/2019 18:09	DO	0.35	mg/L
GS-AP-MW-13	4/16/2019 18:09	Oxidation Reduction Potential	77.4	mv
GS-AP-MW-13	4/16/2019 18:09	pH	6.64	pH
GS-AP-MW-13	4/16/2019 18:09	Temperature	17.16	C
GS-AP-MW-13	4/16/2019 18:09	Turbidity	1.5	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-14	4/16/2019 18:45	Conductivity	381.8	uS/cm
GS-AP-MW-14	4/16/2019 18:45	Depth to Water Detail	101.81	ft
GS-AP-MW-14	4/16/2019 18:45	DO	1.1	mg/L
GS-AP-MW-14	4/16/2019 18:45	Oxidation Reduction Potention	-84.3	mv
GS-AP-MW-14	4/16/2019 18:45	pH	7.15	pH
GS-AP-MW-14	4/16/2019 18:45	Temperature	17.79	C
GS-AP-MW-14	4/16/2019 18:45	Turbidity	1.56	NTU
GS-AP-MW-14	4/16/2019 18:50	Conductivity	408.4	uS/cm
GS-AP-MW-14	4/16/2019 18:50	Depth to Water Detail	102.42	ft
GS-AP-MW-14	4/16/2019 18:50	DO	0.5	mg/L
GS-AP-MW-14	4/16/2019 18:50	Oxidation Reduction Potention	-87	mv
GS-AP-MW-14	4/16/2019 18:50	pH	7.13	pH
GS-AP-MW-14	4/16/2019 18:50	Temperature	17.52	C
GS-AP-MW-14	4/16/2019 18:50	Turbidity	2.5	NTU
GS-AP-MW-14	4/16/2019 18:55	Conductivity	416	uS/cm
GS-AP-MW-14	4/16/2019 18:55	Depth to Water Detail	102.5	ft
GS-AP-MW-14	4/16/2019 18:55	DO	0.39	mg/L
GS-AP-MW-14	4/16/2019 18:55	Oxidation Reduction Potention	-102.3	mv
GS-AP-MW-14	4/16/2019 18:55	pH	7.14	pH
GS-AP-MW-14	4/16/2019 18:55	Temperature	17.42	C
GS-AP-MW-14	4/16/2019 18:55	Turbidity	2.54	NTU
GS-AP-MW-14	4/16/2019 19:00	Conductivity	415.1	uS/cm
GS-AP-MW-14	4/16/2019 19:00	Depth to Water Detail	102.9	ft
GS-AP-MW-14	4/16/2019 19:00	DO	0.35	mg/L
GS-AP-MW-14	4/16/2019 19:00	Oxidation Reduction Potention	-106.4	mv
GS-AP-MW-14	4/16/2019 19:00	pH	7.14	pH
GS-AP-MW-14	4/16/2019 19:00	Temperature	17.34	C
GS-AP-MW-14	4/16/2019 19:00	Turbidity	2.58	NTU
GS-AP-MW-14	4/16/2019 19:05	Conductivity	412.5	uS/cm
GS-AP-MW-14	4/16/2019 19:05	Depth to Water Detail	103.19	ft
GS-AP-MW-14	4/16/2019 19:05	DO	0.34	mg/L
GS-AP-MW-14	4/16/2019 19:05	Oxidation Reduction Potention	-103.7	mv
GS-AP-MW-14	4/16/2019 19:05	pH	7.13	pH
GS-AP-MW-14	4/16/2019 19:05	Temperature	17.25	C
GS-AP-MW-14	4/16/2019 19:05	Turbidity	2.41	NTU
GS-AP-MW-14	4/16/2019 19:10	Conductivity	408.9	uS/cm
GS-AP-MW-14	4/16/2019 19:10	Depth to Water Detail	103.39	ft
GS-AP-MW-14	4/16/2019 19:10	DO	0.33	mg/L
GS-AP-MW-14	4/16/2019 19:10	Oxidation Reduction Potention	-98.5	mv
GS-AP-MW-14	4/16/2019 19:10	pH	7.1	pH
GS-AP-MW-14	4/16/2019 19:10	Temperature	17.2	C
GS-AP-MW-14	4/16/2019 19:10	Turbidity	2.48	NTU
GS-AP-MW-14	4/16/2019 19:15	Conductivity	406.9	uS/cm
GS-AP-MW-14	4/16/2019 19:15	Depth to Water Detail	103.63	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-14	4/16/2019 19:15	DO	0.33	mg/L
GS-AP-MW-14	4/16/2019 19:15	Oxidation Reduction Potention	-94.6	mv
GS-AP-MW-14	4/16/2019 19:15	pH	7.08	pH
GS-AP-MW-14	4/16/2019 19:15	Temperature	17.16	C
GS-AP-MW-14	4/16/2019 19:15	Turbidity	2.4	NTU
GS-AP-MW-14	4/16/2019 19:20	Conductivity	403.8	uS/cm
GS-AP-MW-14	4/16/2019 19:20	Depth to Water Detail	103.79	ft
GS-AP-MW-14	4/16/2019 19:20	DO	0.34	mg/L
GS-AP-MW-14	4/16/2019 19:20	Oxidation Reduction Potention	-89.7	mv
GS-AP-MW-14	4/16/2019 19:20	pH	7.06	pH
GS-AP-MW-14	4/16/2019 19:20	Temperature	17.15	C
GS-AP-MW-14	4/16/2019 19:20	Turbidity	2.31	NTU
GS-AP-MW-14	4/16/2019 19:25	Conductivity	400.6	uS/cm
GS-AP-MW-14	4/16/2019 19:25	Depth to Water Detail	103.96	ft
GS-AP-MW-14	4/16/2019 19:25	DO	0.34	mg/L
GS-AP-MW-14	4/16/2019 19:25	Oxidation Reduction Potention	-83.7	mv
GS-AP-MW-14	4/16/2019 19:25	pH	7.04	pH
GS-AP-MW-14	4/16/2019 19:25	Temperature	17.1	C
GS-AP-MW-14	4/16/2019 19:25	Turbidity	1.84	NTU
GS-AP-MW-14	4/16/2019 19:30	Conductivity	398.8	uS/cm
GS-AP-MW-14	4/16/2019 19:30	Depth to Water Detail	104.09	ft
GS-AP-MW-14	4/16/2019 19:30	DO	0.36	mg/L
GS-AP-MW-14	4/16/2019 19:30	Oxidation Reduction Potention	-79.3	mv
GS-AP-MW-14	4/16/2019 19:30	pH	7.03	pH
GS-AP-MW-14	4/16/2019 19:30	Temperature	17.07	C
GS-AP-MW-14	4/16/2019 19:30	Turbidity	2.25	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	4/17/2019 10:34	Conductivity	1574.2	uS/cm
GS-AP-MW-15	4/17/2019 10:34	Depth to Water Detail	82.83	ft
GS-AP-MW-15	4/17/2019 10:34	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 10:34	Oxidation Reduction Potention	-103.3	mv
GS-AP-MW-15	4/17/2019 10:34	pH	11.67	pH
GS-AP-MW-15	4/17/2019 10:34	Temperature	18.98	C
GS-AP-MW-15	4/17/2019 10:34	Turbidity	1.02	NTU
GS-AP-MW-15	4/17/2019 10:39	Conductivity	1661.7	uS/cm
GS-AP-MW-15	4/17/2019 10:39	Depth to Water Detail	83.64	ft
GS-AP-MW-15	4/17/2019 10:39	DO	0.49	mg/L
GS-AP-MW-15	4/17/2019 10:39	Oxidation Reduction Potention	-104.6	mv
GS-AP-MW-15	4/17/2019 10:39	pH	11.71	pH
GS-AP-MW-15	4/17/2019 10:39	Temperature	18.88	C
GS-AP-MW-15	4/17/2019 10:39	Turbidity	0.5	NTU
GS-AP-MW-15	4/17/2019 10:44	Conductivity	1668.1	uS/cm
GS-AP-MW-15	4/17/2019 10:44	Depth to Water Detail	84.24	ft
GS-AP-MW-15	4/17/2019 10:44	DO	0.46	mg/L
GS-AP-MW-15	4/17/2019 10:44	Oxidation Reduction Potention	-103.1	mv
GS-AP-MW-15	4/17/2019 10:44	pH	11.72	pH
GS-AP-MW-15	4/17/2019 10:44	Temperature	18.79	C
GS-AP-MW-15	4/17/2019 10:44	Turbidity	0.35	NTU
GS-AP-MW-15	4/17/2019 10:49	Conductivity	1672.3	uS/cm
GS-AP-MW-15	4/17/2019 10:49	Depth to Water Detail	84.92	ft
GS-AP-MW-15	4/17/2019 10:49	DO	0.46	mg/L
GS-AP-MW-15	4/17/2019 10:49	Oxidation Reduction Potention	-102.3	mv
GS-AP-MW-15	4/17/2019 10:49	pH	11.73	pH
GS-AP-MW-15	4/17/2019 10:49	Temperature	18.8	C
GS-AP-MW-15	4/17/2019 10:49	Turbidity	0.28	NTU
GS-AP-MW-15	4/17/2019 10:54	Conductivity	1668.4	uS/cm
GS-AP-MW-15	4/17/2019 10:54	Depth to Water Detail	85.62	ft
GS-AP-MW-15	4/17/2019 10:54	DO	0.47	mg/L
GS-AP-MW-15	4/17/2019 10:54	Oxidation Reduction Potention	-101.6	mv
GS-AP-MW-15	4/17/2019 10:54	pH	11.74	pH
GS-AP-MW-15	4/17/2019 10:54	Temperature	18.81	C
GS-AP-MW-15	4/17/2019 10:54	Turbidity	0.35	NTU
GS-AP-MW-15	4/17/2019 10:59	Conductivity	1665.4	uS/cm
GS-AP-MW-15	4/17/2019 10:59	Depth to Water Detail	86.06	ft
GS-AP-MW-15	4/17/2019 10:59	DO	0.47	mg/L
GS-AP-MW-15	4/17/2019 10:59	Oxidation Reduction Potention	-100.8	mv
GS-AP-MW-15	4/17/2019 10:59	pH	11.73	pH
GS-AP-MW-15	4/17/2019 10:59	Temperature	18.88	C
GS-AP-MW-15	4/17/2019 10:59	Turbidity	0.38	NTU
GS-AP-MW-15	4/17/2019 11:04	Conductivity	1663.9	uS/cm
GS-AP-MW-15	4/17/2019 11:04	Depth to Water Detail	86.56	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	4/17/2019 11:04	DO	0.49	mg/L
GS-AP-MW-15	4/17/2019 11:04	Oxidation Reduction Potention	-100.3	mv
GS-AP-MW-15	4/17/2019 11:04	pH	11.74	pH
GS-AP-MW-15	4/17/2019 11:04	Temperature	18.88	C
GS-AP-MW-15	4/17/2019 11:04	Turbidity	0.27	NTU
GS-AP-MW-15	4/17/2019 11:09	Conductivity	1651.9	uS/cm
GS-AP-MW-15	4/17/2019 11:09	Depth to Water Detail	87.1	ft
GS-AP-MW-15	4/17/2019 11:09	DO	0.49	mg/L
GS-AP-MW-15	4/17/2019 11:09	Oxidation Reduction Potention	-99.8	mv
GS-AP-MW-15	4/17/2019 11:09	pH	11.73	pH
GS-AP-MW-15	4/17/2019 11:09	Temperature	19.06	C
GS-AP-MW-15	4/17/2019 11:09	Turbidity	0.28	NTU
GS-AP-MW-15	4/17/2019 11:14	Conductivity	1636.7	uS/cm
GS-AP-MW-15	4/17/2019 11:14	Depth to Water Detail	87.52	ft
GS-AP-MW-15	4/17/2019 11:14	DO	0.5	mg/L
GS-AP-MW-15	4/17/2019 11:14	Oxidation Reduction Potention	-98.8	mv
GS-AP-MW-15	4/17/2019 11:14	pH	11.71	pH
GS-AP-MW-15	4/17/2019 11:14	Temperature	19.33	C
GS-AP-MW-15	4/17/2019 11:14	Turbidity	0.47	NTU
GS-AP-MW-15	4/17/2019 11:19	Conductivity	1633.5	uS/cm
GS-AP-MW-15	4/17/2019 11:19	Depth to Water Detail	87.85	ft
GS-AP-MW-15	4/17/2019 11:19	DO	0.5	mg/L
GS-AP-MW-15	4/17/2019 11:19	Oxidation Reduction Potention	-98.1	mv
GS-AP-MW-15	4/17/2019 11:19	pH	11.72	pH
GS-AP-MW-15	4/17/2019 11:19	Temperature	19.33	C
GS-AP-MW-15	4/17/2019 11:19	Turbidity	0.56	NTU
GS-AP-MW-15	4/17/2019 11:24	Conductivity	1617.6	uS/cm
GS-AP-MW-15	4/17/2019 11:24	Depth to Water Detail	88.16	ft
GS-AP-MW-15	4/17/2019 11:24	DO	0.5	mg/L
GS-AP-MW-15	4/17/2019 11:24	Oxidation Reduction Potention	-97.3	mv
GS-AP-MW-15	4/17/2019 11:24	pH	11.71	pH
GS-AP-MW-15	4/17/2019 11:24	Temperature	19.42	C
GS-AP-MW-15	4/17/2019 11:24	Turbidity	0.33	NTU
GS-AP-MW-15	4/17/2019 11:29	Conductivity	1599.7	uS/cm
GS-AP-MW-15	4/17/2019 11:29	Depth to Water Detail	88.46	ft
GS-AP-MW-15	4/17/2019 11:29	DO	0.53	mg/L
GS-AP-MW-15	4/17/2019 11:29	Oxidation Reduction Potention	-96.7	mv
GS-AP-MW-15	4/17/2019 11:29	pH	11.71	pH
GS-AP-MW-15	4/17/2019 11:29	Temperature	19.36	C
GS-AP-MW-15	4/17/2019 11:29	Turbidity	0.53	NTU
GS-AP-MW-15	4/17/2019 11:34	Conductivity	1586.5	uS/cm
GS-AP-MW-15	4/17/2019 11:34	Depth to Water Detail	88.73	ft
GS-AP-MW-15	4/17/2019 11:34	DO	0.53	mg/L
GS-AP-MW-15	4/17/2019 11:34	Oxidation Reduction Potention	-96.1	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	4/17/2019 11:34	pH	11.7	pH
GS-AP-MW-15	4/17/2019 11:34	Temperature	19.5	C
GS-AP-MW-15	4/17/2019 11:34	Turbidity	0.64	NTU
GS-AP-MW-15	4/17/2019 11:39	Conductivity	1552.7	uS/cm
GS-AP-MW-15	4/17/2019 11:39	Depth to Water Detail	88.96	ft
GS-AP-MW-15	4/17/2019 11:39	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 11:39	Oxidation Reduction Potention	-95.8	mv
GS-AP-MW-15	4/17/2019 11:39	pH	11.69	pH
GS-AP-MW-15	4/17/2019 11:39	Temperature	19.49	C
GS-AP-MW-15	4/17/2019 11:39	Turbidity	0.35	NTU
GS-AP-MW-15	4/17/2019 11:44	Conductivity	1534.5	uS/cm
GS-AP-MW-15	4/17/2019 11:44	Depth to Water Detail	89.2	ft
GS-AP-MW-15	4/17/2019 11:44	DO	0.53	mg/L
GS-AP-MW-15	4/17/2019 11:44	Oxidation Reduction Potention	-94.7	mv
GS-AP-MW-15	4/17/2019 11:44	pH	11.69	pH
GS-AP-MW-15	4/17/2019 11:44	Temperature	19.46	C
GS-AP-MW-15	4/17/2019 11:44	Turbidity	0.4	NTU
GS-AP-MW-15	4/17/2019 11:49	Conductivity	1516.2	uS/cm
GS-AP-MW-15	4/17/2019 11:49	Depth to Water Detail	89.44	ft
GS-AP-MW-15	4/17/2019 11:49	DO	0.54	mg/L
GS-AP-MW-15	4/17/2019 11:49	Oxidation Reduction Potention	-95	mv
GS-AP-MW-15	4/17/2019 11:49	pH	11.67	pH
GS-AP-MW-15	4/17/2019 11:49	Temperature	19.55	C
GS-AP-MW-15	4/17/2019 11:49	Turbidity	0.6	NTU
GS-AP-MW-15	4/17/2019 11:54	Conductivity	1458.5	uS/cm
GS-AP-MW-15	4/17/2019 11:54	Depth to Water Detail	89.58	ft
GS-AP-MW-15	4/17/2019 11:54	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 11:54	Oxidation Reduction Potention	-94.3	mv
GS-AP-MW-15	4/17/2019 11:54	pH	11.65	pH
GS-AP-MW-15	4/17/2019 11:54	Temperature	19.55	C
GS-AP-MW-15	4/17/2019 11:54	Turbidity	0.48	NTU
GS-AP-MW-15	4/17/2019 11:59	Conductivity	1396.4	uS/cm
GS-AP-MW-15	4/17/2019 11:59	Depth to Water Detail	89.75	ft
GS-AP-MW-15	4/17/2019 11:59	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 11:59	Oxidation Reduction Potention	-94.1	mv
GS-AP-MW-15	4/17/2019 11:59	pH	11.62	pH
GS-AP-MW-15	4/17/2019 11:59	Temperature	19.42	C
GS-AP-MW-15	4/17/2019 11:59	Turbidity	0.91	NTU
GS-AP-MW-15	4/17/2019 12:04	Conductivity	1323	uS/cm
GS-AP-MW-15	4/17/2019 12:04	Depth to Water Detail	90	ft
GS-AP-MW-15	4/17/2019 12:04	DO	0.54	mg/L
GS-AP-MW-15	4/17/2019 12:04	Oxidation Reduction Potention	-92.7	mv
GS-AP-MW-15	4/17/2019 12:04	pH	11.58	pH
GS-AP-MW-15	4/17/2019 12:04	Temperature	19.24	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	4/17/2019 12:04	Turbidity	0.63	NTU
GS-AP-MW-15	4/17/2019 12:09	Conductivity	1282.5	uS/cm
GS-AP-MW-15	4/17/2019 12:09	Depth to Water Detail	90.17	ft
GS-AP-MW-15	4/17/2019 12:09	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 12:09	Oxidation Reduction Potention	-93.1	mv
GS-AP-MW-15	4/17/2019 12:09	pH	11.55	pH
GS-AP-MW-15	4/17/2019 12:09	Temperature	19.24	C
GS-AP-MW-15	4/17/2019 12:09	Turbidity	0.82	NTU
GS-AP-MW-15	4/17/2019 12:14	Conductivity	1225.6	uS/cm
GS-AP-MW-15	4/17/2019 12:14	Depth to Water Detail	90.29	ft
GS-AP-MW-15	4/17/2019 12:14	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:14	Oxidation Reduction Potention	-93.3	mv
GS-AP-MW-15	4/17/2019 12:14	pH	11.51	pH
GS-AP-MW-15	4/17/2019 12:14	Temperature	19.41	C
GS-AP-MW-15	4/17/2019 12:14	Turbidity	0.42	NTU
GS-AP-MW-15	4/17/2019 12:19	Conductivity	1176.1	uS/cm
GS-AP-MW-15	4/17/2019 12:19	Depth to Water Detail	90.42	ft
GS-AP-MW-15	4/17/2019 12:19	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:19	Oxidation Reduction Potention	-93.8	mv
GS-AP-MW-15	4/17/2019 12:19	pH	11.45	pH
GS-AP-MW-15	4/17/2019 12:19	Temperature	19.55	C
GS-AP-MW-15	4/17/2019 12:19	Turbidity	0.63	NTU
GS-AP-MW-15	4/17/2019 12:24	Conductivity	1136.4	uS/cm
GS-AP-MW-15	4/17/2019 12:24	Depth to Water Detail	90.56	ft
GS-AP-MW-15	4/17/2019 12:24	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:24	Oxidation Reduction Potention	-93	mv
GS-AP-MW-15	4/17/2019 12:24	pH	11.43	pH
GS-AP-MW-15	4/17/2019 12:24	Temperature	19.57	C
GS-AP-MW-15	4/17/2019 12:24	Turbidity	0.49	NTU
GS-AP-MW-15	4/17/2019 12:29	Conductivity	1081.7	uS/cm
GS-AP-MW-15	4/17/2019 12:29	Depth to Water Detail	90.66	ft
GS-AP-MW-15	4/17/2019 12:29	DO	0.57	mg/L
GS-AP-MW-15	4/17/2019 12:29	Oxidation Reduction Potention	-92.5	mv
GS-AP-MW-15	4/17/2019 12:29	pH	11.38	pH
GS-AP-MW-15	4/17/2019 12:29	Temperature	19.5	C
GS-AP-MW-15	4/17/2019 12:29	Turbidity	0.73	NTU
GS-AP-MW-15	4/17/2019 12:34	Conductivity	1024.8	uS/cm
GS-AP-MW-15	4/17/2019 12:34	Depth to Water Detail	90.79	ft
GS-AP-MW-15	4/17/2019 12:34	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:34	Oxidation Reduction Potention	-92	mv
GS-AP-MW-15	4/17/2019 12:34	pH	11.33	pH
GS-AP-MW-15	4/17/2019 12:34	Temperature	19.33	C
GS-AP-MW-15	4/17/2019 12:34	Turbidity	0.48	NTU
GS-AP-MW-15	4/17/2019 12:39	Conductivity	974.7	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	4/17/2019 12:39	Depth to Water Detail	90.85	ft
GS-AP-MW-15	4/17/2019 12:39	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:39	Oxidation Reduction Potention	-91.7	mv
GS-AP-MW-15	4/17/2019 12:39	pH	11.26	pH
GS-AP-MW-15	4/17/2019 12:39	Temperature	19.08	C
GS-AP-MW-15	4/17/2019 12:39	Turbidity	0.77	NTU
GS-AP-MW-15	4/17/2019 12:45	Conductivity	926.1	uS/cm
GS-AP-MW-15	4/17/2019 12:45	Depth to Water Detail	90.99	ft
GS-AP-MW-15	4/17/2019 12:45	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:45	Oxidation Reduction Potention	-92	mv
GS-AP-MW-15	4/17/2019 12:45	pH	11.2	pH
GS-AP-MW-15	4/17/2019 12:45	Temperature	19.04	C
GS-AP-MW-15	4/17/2019 12:45	Turbidity	0.81	NTU
GS-AP-MW-15	4/17/2019 12:50	Conductivity	895.1	uS/cm
GS-AP-MW-15	4/17/2019 12:50	Depth to Water Detail	91.09	ft
GS-AP-MW-15	4/17/2019 12:50	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:50	Oxidation Reduction Potention	-92.4	mv
GS-AP-MW-15	4/17/2019 12:50	pH	11.16	pH
GS-AP-MW-15	4/17/2019 12:50	Temperature	19.17	C
GS-AP-MW-15	4/17/2019 12:50	Turbidity	0.31	NTU
GS-AP-MW-15	4/17/2019 12:55	Conductivity	860.7	uS/cm
GS-AP-MW-15	4/17/2019 12:55	Depth to Water Detail	91.25	ft
GS-AP-MW-15	4/17/2019 12:55	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 12:55	Oxidation Reduction Potention	-91.8	mv
GS-AP-MW-15	4/17/2019 12:55	pH	11.09	pH
GS-AP-MW-15	4/17/2019 12:55	Temperature	19.06	C
GS-AP-MW-15	4/17/2019 12:55	Turbidity	0.34	NTU
GS-AP-MW-15	4/17/2019 13:00	Conductivity	828.6	uS/cm
GS-AP-MW-15	4/17/2019 13:00	Depth to Water Detail	91.35	ft
GS-AP-MW-15	4/17/2019 13:00	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 13:00	Oxidation Reduction Potention	-92.3	mv
GS-AP-MW-15	4/17/2019 13:00	pH	11.03	pH
GS-AP-MW-15	4/17/2019 13:00	Temperature	18.99	C
GS-AP-MW-15	4/17/2019 13:00	Turbidity	0.53	NTU
GS-AP-MW-15	4/17/2019 13:05	Conductivity	798.1	uS/cm
GS-AP-MW-15	4/17/2019 13:05	Depth to Water Detail	91.4	ft
GS-AP-MW-15	4/17/2019 13:05	DO	0.56	mg/L
GS-AP-MW-15	4/17/2019 13:05	Oxidation Reduction Potention	-91.8	mv
GS-AP-MW-15	4/17/2019 13:05	pH	10.96	pH
GS-AP-MW-15	4/17/2019 13:05	Temperature	19.1	C
GS-AP-MW-15	4/17/2019 13:05	Turbidity	0.72	NTU
GS-AP-MW-15	4/17/2019 13:10	Conductivity	772.3	uS/cm
GS-AP-MW-15	4/17/2019 13:10	Depth to Water Detail	91.47	ft
GS-AP-MW-15	4/17/2019 13:10	DO	0.56	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	4/17/2019 13:10	Oxidation Reduction Potention	-91.3	mv
GS-AP-MW-15	4/17/2019 13:10	pH	10.9	pH
GS-AP-MW-15	4/17/2019 13:10	Temperature	19.04	C
GS-AP-MW-15	4/17/2019 13:10	Turbidity	0.5	NTU
GS-AP-MW-15	4/17/2019 13:15	Conductivity	752	uS/cm
GS-AP-MW-15	4/17/2019 13:15	Depth to Water Detail	91.53	ft
GS-AP-MW-15	4/17/2019 13:15	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 13:15	Oxidation Reduction Potention	-91.2	mv
GS-AP-MW-15	4/17/2019 13:15	pH	10.85	pH
GS-AP-MW-15	4/17/2019 13:15	Temperature	19.07	C
GS-AP-MW-15	4/17/2019 13:15	Turbidity	0.56	NTU
GS-AP-MW-15	4/17/2019 13:20	Conductivity	732.7	uS/cm
GS-AP-MW-15	4/17/2019 13:20	Depth to Water Detail	91.59	ft
GS-AP-MW-15	4/17/2019 13:20	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 13:20	Oxidation Reduction Potention	-92.9	mv
GS-AP-MW-15	4/17/2019 13:20	pH	10.8	pH
GS-AP-MW-15	4/17/2019 13:20	Temperature	18.97	C
GS-AP-MW-15	4/17/2019 13:20	Turbidity	0.54	NTU
GS-AP-MW-15	4/17/2019 13:25	Conductivity	717.5	uS/cm
GS-AP-MW-15	4/17/2019 13:25	Depth to Water Detail	91.71	ft
GS-AP-MW-15	4/17/2019 13:25	DO	0.55	mg/L
GS-AP-MW-15	4/17/2019 13:25	Oxidation Reduction Potention	-90.7	mv
GS-AP-MW-15	4/17/2019 13:25	pH	10.76	pH
GS-AP-MW-15	4/17/2019 13:25	Temperature	18.91	C
GS-AP-MW-15	4/17/2019 13:25	Turbidity	0.88	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-16D	4/17/2019 9:35	Conductivity	355.7	uS/cm
GS-AP-MW-16D	4/17/2019 9:35	Depth to Water Detail	137.37	ft
GS-AP-MW-16D	4/17/2019 9:35	DO	5	mg/L
GS-AP-MW-16D	4/17/2019 9:35	Oxidation Reduction Potention	-25.9	mv
GS-AP-MW-16D	4/17/2019 9:35	pH	7.02	pH
GS-AP-MW-16D	4/17/2019 9:35	Temperature	17.84	C
GS-AP-MW-16D	4/17/2019 9:35	Turbidity	1.56	NTU
GS-AP-MW-16D	4/17/2019 9:40	Conductivity	358.2	uS/cm
GS-AP-MW-16D	4/17/2019 9:40	Depth to Water Detail	137.7	ft
GS-AP-MW-16D	4/17/2019 9:40	DO	1.72	mg/L
GS-AP-MW-16D	4/17/2019 9:40	Oxidation Reduction Potention	-51.6	mv
GS-AP-MW-16D	4/17/2019 9:40	pH	7.17	pH
GS-AP-MW-16D	4/17/2019 9:40	Temperature	17.91	C
GS-AP-MW-16D	4/17/2019 9:40	Turbidity	1.32	NTU
GS-AP-MW-16D	4/17/2019 9:45	Conductivity	359	uS/cm
GS-AP-MW-16D	4/17/2019 9:45	Depth to Water Detail	137.92	ft
GS-AP-MW-16D	4/17/2019 9:45	DO	0.78	mg/L
GS-AP-MW-16D	4/17/2019 9:45	Oxidation Reduction Potention	-58.6	mv
GS-AP-MW-16D	4/17/2019 9:45	pH	7.26	pH
GS-AP-MW-16D	4/17/2019 9:45	Temperature	17.96	C
GS-AP-MW-16D	4/17/2019 9:45	Turbidity	1.26	NTU
GS-AP-MW-16D	4/17/2019 9:50	Conductivity	359.7	uS/cm
GS-AP-MW-16D	4/17/2019 9:50	Depth to Water Detail	138.13	ft
GS-AP-MW-16D	4/17/2019 9:50	DO	0.59	mg/L
GS-AP-MW-16D	4/17/2019 9:50	Oxidation Reduction Potention	-60.6	mv
GS-AP-MW-16D	4/17/2019 9:50	pH	7.29	pH
GS-AP-MW-16D	4/17/2019 9:50	Temperature	18.07	C
GS-AP-MW-16D	4/17/2019 9:50	Turbidity	1.31	NTU
GS-AP-MW-16D	4/17/2019 9:55	Conductivity	359	uS/cm
GS-AP-MW-16D	4/17/2019 9:55	Depth to Water Detail	138.29	ft
GS-AP-MW-16D	4/17/2019 9:55	DO	0.52	mg/L
GS-AP-MW-16D	4/17/2019 9:55	Oxidation Reduction Potention	-61.1	mv
GS-AP-MW-16D	4/17/2019 9:55	pH	7.31	pH
GS-AP-MW-16D	4/17/2019 9:55	Temperature	18.04	C
GS-AP-MW-16D	4/17/2019 9:55	Turbidity	1.3	NTU
GS-AP-MW-16D	4/17/2019 10:00	Conductivity	360.3	uS/cm
GS-AP-MW-16D	4/17/2019 10:00	Depth to Water Detail	138.42	ft
GS-AP-MW-16D	4/17/2019 10:00	DO	0.52	mg/L
GS-AP-MW-16D	4/17/2019 10:00	Oxidation Reduction Potention	-61.2	mv
GS-AP-MW-16D	4/17/2019 10:00	pH	7.32	pH
GS-AP-MW-16D	4/17/2019 10:00	Temperature	18.15	C
GS-AP-MW-16D	4/17/2019 10:00	Turbidity	1.12	NTU
GS-AP-MW-16D	4/17/2019 10:05	Conductivity	359.8	uS/cm
GS-AP-MW-16D	4/17/2019 10:05	Depth to Water Detail	138.49	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-16D	4/17/2019 10:05	DO	0.52	mg/L
GS-AP-MW-16D	4/17/2019 10:05	Oxidation Reduction Potention	-60.6	mv
GS-AP-MW-16D	4/17/2019 10:05	pH	7.33	pH
GS-AP-MW-16D	4/17/2019 10:05	Temperature	18.24	C
GS-AP-MW-16D	4/17/2019 10:05	Turbidity	1.15	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17	4/17/2019 8:51	Conductivity	753.9	uS/cm
GS-AP-MW-17	4/17/2019 8:51	Depth to Water Detail	172.09	ft
GS-AP-MW-17	4/17/2019 8:51	DO	3.58	mg/L
GS-AP-MW-17	4/17/2019 8:51	Oxidation Reduction Potention	-89.3	mv
GS-AP-MW-17	4/17/2019 8:51	pH	7.74	pH
GS-AP-MW-17	4/17/2019 8:51	Temperature	17.16	C
GS-AP-MW-17	4/17/2019 8:51	Turbidity	10.09	NTU
GS-AP-MW-17	4/17/2019 8:56	Conductivity	860.1	uS/cm
GS-AP-MW-17	4/17/2019 8:56	Depth to Water Detail	172.09	ft
GS-AP-MW-17	4/17/2019 8:56	DO	1.61	mg/L
GS-AP-MW-17	4/17/2019 8:56	Oxidation Reduction Potention	-114.8	mv
GS-AP-MW-17	4/17/2019 8:56	pH	7.95	pH
GS-AP-MW-17	4/17/2019 8:56	Temperature	17.1	C
GS-AP-MW-17	4/17/2019 8:56	Turbidity	22.6	NTU
GS-AP-MW-17	4/17/2019 9:01	Conductivity	957.2	uS/cm
GS-AP-MW-17	4/17/2019 9:01	Depth to Water Detail	172.15	ft
GS-AP-MW-17	4/17/2019 9:01	DO	0.95	mg/L
GS-AP-MW-17	4/17/2019 9:01	Oxidation Reduction Potention	-110.3	mv
GS-AP-MW-17	4/17/2019 9:01	pH	8.15	pH
GS-AP-MW-17	4/17/2019 9:01	Temperature	17	C
GS-AP-MW-17	4/17/2019 9:01	Turbidity	16.1	NTU
GS-AP-MW-17	4/17/2019 9:06	Conductivity	1028.1	uS/cm
GS-AP-MW-17	4/17/2019 9:06	Depth to Water Detail	172.18	ft
GS-AP-MW-17	4/17/2019 9:06	DO	0.49	mg/L
GS-AP-MW-17	4/17/2019 9:06	Oxidation Reduction Potention	-107.5	mv
GS-AP-MW-17	4/17/2019 9:06	pH	8.3	pH
GS-AP-MW-17	4/17/2019 9:06	Temperature	17.05	C
GS-AP-MW-17	4/17/2019 9:06	Turbidity	12.4	NTU
GS-AP-MW-17	4/17/2019 9:11	Conductivity	1030.1	uS/cm
GS-AP-MW-17	4/17/2019 9:11	Depth to Water Detail	172.22	ft
GS-AP-MW-17	4/17/2019 9:11	DO	0.34	mg/L
GS-AP-MW-17	4/17/2019 9:11	Oxidation Reduction Potention	-108.2	mv
GS-AP-MW-17	4/17/2019 9:11	pH	8.34	pH
GS-AP-MW-17	4/17/2019 9:11	Temperature	17.05	C
GS-AP-MW-17	4/17/2019 9:11	Turbidity	11.6	NTU
GS-AP-MW-17	4/17/2019 9:16	Conductivity	1009	uS/cm
GS-AP-MW-17	4/17/2019 9:16	Depth to Water Detail	172.28	ft
GS-AP-MW-17	4/17/2019 9:16	DO	0.3	mg/L
GS-AP-MW-17	4/17/2019 9:16	Oxidation Reduction Potention	-113.4	mv
GS-AP-MW-17	4/17/2019 9:16	pH	8.36	pH
GS-AP-MW-17	4/17/2019 9:16	Temperature	17.01	C
GS-AP-MW-17	4/17/2019 9:16	Turbidity	7.67	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	4/17/2019 15:15	Conductivity	515.4	uS/cm
GS-AP-MW-18	4/17/2019 15:15	Depth to Water Detail	52.1	ft
GS-AP-MW-18	4/17/2019 15:15	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 15:15	Oxidation Reduction Potention	-84	mv
GS-AP-MW-18	4/17/2019 15:15	pH	7.21	pH
GS-AP-MW-18	4/17/2019 15:15	Temperature	16.98	C
GS-AP-MW-18	4/17/2019 15:15	Turbidity	39.8	NTU
GS-AP-MW-18	4/17/2019 15:20	Conductivity	515.8	uS/cm
GS-AP-MW-18	4/17/2019 15:20	Depth to Water Detail	53.3	ft
GS-AP-MW-18	4/17/2019 15:20	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 15:20	Oxidation Reduction Potention	-81.6	mv
GS-AP-MW-18	4/17/2019 15:20	pH	7.2	pH
GS-AP-MW-18	4/17/2019 15:20	Temperature	17.01	C
GS-AP-MW-18	4/17/2019 15:20	Turbidity	33.7	NTU
GS-AP-MW-18	4/17/2019 15:25	Conductivity	518	uS/cm
GS-AP-MW-18	4/17/2019 15:25	Depth to Water Detail	56.3	ft
GS-AP-MW-18	4/17/2019 15:25	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 15:25	Oxidation Reduction Potention	-86.9	mv
GS-AP-MW-18	4/17/2019 15:25	pH	7.24	pH
GS-AP-MW-18	4/17/2019 15:25	Temperature	16.89	C
GS-AP-MW-18	4/17/2019 15:25	Turbidity	33.1	NTU
GS-AP-MW-18	4/17/2019 15:30	Conductivity	520.8	uS/cm
GS-AP-MW-18	4/17/2019 15:30	Depth to Water Detail	57.85	ft
GS-AP-MW-18	4/17/2019 15:30	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 15:30	Oxidation Reduction Potention	-91.6	mv
GS-AP-MW-18	4/17/2019 15:30	pH	7.26	pH
GS-AP-MW-18	4/17/2019 15:30	Temperature	16.88	C
GS-AP-MW-18	4/17/2019 15:30	Turbidity	49.7	NTU
GS-AP-MW-18	4/17/2019 15:35	Conductivity	524	uS/cm
GS-AP-MW-18	4/17/2019 15:35	Depth to Water Detail	59.45	ft
GS-AP-MW-18	4/17/2019 15:35	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 15:35	Oxidation Reduction Potention	-94.2	mv
GS-AP-MW-18	4/17/2019 15:35	pH	7.28	pH
GS-AP-MW-18	4/17/2019 15:35	Temperature	16.94	C
GS-AP-MW-18	4/17/2019 15:35	Turbidity	49.4	NTU
GS-AP-MW-18	4/17/2019 15:40	Conductivity	527.2	uS/cm
GS-AP-MW-18	4/17/2019 15:40	Depth to Water Detail	61.4	ft
GS-AP-MW-18	4/17/2019 15:40	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 15:40	Oxidation Reduction Potention	-94.6	mv
GS-AP-MW-18	4/17/2019 15:40	pH	7.29	pH
GS-AP-MW-18	4/17/2019 15:40	Temperature	16.91	C
GS-AP-MW-18	4/17/2019 15:40	Turbidity	44.3	NTU
GS-AP-MW-18	4/17/2019 15:45	Conductivity	530.6	uS/cm
GS-AP-MW-18	4/17/2019 15:45	Depth to Water Detail	62.53	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	4/17/2019 15:45	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 15:45	Oxidation Reduction Potention	-95.5	mv
GS-AP-MW-18	4/17/2019 15:45	pH	7.31	pH
GS-AP-MW-18	4/17/2019 15:45	Temperature	16.84	C
GS-AP-MW-18	4/17/2019 15:45	Turbidity	46.5	NTU
GS-AP-MW-18	4/17/2019 15:50	Conductivity	530	uS/cm
GS-AP-MW-18	4/17/2019 15:50	Depth to Water Detail	64.34	ft
GS-AP-MW-18	4/17/2019 15:50	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 15:50	Oxidation Reduction Potention	-95.6	mv
GS-AP-MW-18	4/17/2019 15:50	pH	7.31	pH
GS-AP-MW-18	4/17/2019 15:50	Temperature	16.83	C
GS-AP-MW-18	4/17/2019 15:50	Turbidity	31.4	NTU
GS-AP-MW-18	4/17/2019 15:55	Conductivity	532.8	uS/cm
GS-AP-MW-18	4/17/2019 15:55	Depth to Water Detail	65.73	ft
GS-AP-MW-18	4/17/2019 15:55	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 15:55	Oxidation Reduction Potention	-95.9	mv
GS-AP-MW-18	4/17/2019 15:55	pH	7.32	pH
GS-AP-MW-18	4/17/2019 15:55	Temperature	16.76	C
GS-AP-MW-18	4/17/2019 15:55	Turbidity	24.7	NTU
GS-AP-MW-18	4/17/2019 16:00	Conductivity	534.3	uS/cm
GS-AP-MW-18	4/17/2019 16:00	Depth to Water Detail	68.54	ft
GS-AP-MW-18	4/17/2019 16:00	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:00	Oxidation Reduction Potention	-95.6	mv
GS-AP-MW-18	4/17/2019 16:00	pH	7.33	pH
GS-AP-MW-18	4/17/2019 16:00	Temperature	16.71	C
GS-AP-MW-18	4/17/2019 16:00	Turbidity	50	NTU
GS-AP-MW-18	4/17/2019 16:05	Conductivity	537.5	uS/cm
GS-AP-MW-18	4/17/2019 16:05	Depth to Water Detail	68.73	ft
GS-AP-MW-18	4/17/2019 16:05	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:05	Oxidation Reduction Potention	-95.1	mv
GS-AP-MW-18	4/17/2019 16:05	pH	7.34	pH
GS-AP-MW-18	4/17/2019 16:05	Temperature	16.7	C
GS-AP-MW-18	4/17/2019 16:05	Turbidity	67	NTU
GS-AP-MW-18	4/17/2019 16:10	Conductivity	535.1	uS/cm
GS-AP-MW-18	4/17/2019 16:10	Depth to Water Detail	70.25	ft
GS-AP-MW-18	4/17/2019 16:10	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:10	Oxidation Reduction Potention	-94	mv
GS-AP-MW-18	4/17/2019 16:10	pH	7.35	pH
GS-AP-MW-18	4/17/2019 16:10	Temperature	16.69	C
GS-AP-MW-18	4/17/2019 16:10	Turbidity	64.1	NTU
GS-AP-MW-18	4/17/2019 16:15	Conductivity	537.2	uS/cm
GS-AP-MW-18	4/17/2019 16:15	Depth to Water Detail	71.53	ft
GS-AP-MW-18	4/17/2019 16:15	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:15	Oxidation Reduction Potention	-92.5	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	4/17/2019 16:15	pH	7.35	pH
GS-AP-MW-18	4/17/2019 16:15	Temperature	16.69	C
GS-AP-MW-18	4/17/2019 16:15	Turbidity	37.1	NTU
GS-AP-MW-18	4/17/2019 16:20	Conductivity	539.2	uS/cm
GS-AP-MW-18	4/17/2019 16:20	Depth to Water Detail	72.45	ft
GS-AP-MW-18	4/17/2019 16:20	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:20	Oxidation Reduction Potention	-91.7	mv
GS-AP-MW-18	4/17/2019 16:20	pH	7.36	pH
GS-AP-MW-18	4/17/2019 16:20	Temperature	16.67	C
GS-AP-MW-18	4/17/2019 16:20	Turbidity	31.1	NTU
GS-AP-MW-18	4/17/2019 16:25	Conductivity	541.5	uS/cm
GS-AP-MW-18	4/17/2019 16:25	Depth to Water Detail	73.55	ft
GS-AP-MW-18	4/17/2019 16:25	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:25	Oxidation Reduction Potention	-91.6	mv
GS-AP-MW-18	4/17/2019 16:25	pH	7.37	pH
GS-AP-MW-18	4/17/2019 16:25	Temperature	16.66	C
GS-AP-MW-18	4/17/2019 16:25	Turbidity	30	NTU
GS-AP-MW-18	4/17/2019 16:30	Conductivity	545.1	uS/cm
GS-AP-MW-18	4/17/2019 16:30	Depth to Water Detail	74.39	ft
GS-AP-MW-18	4/17/2019 16:30	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:30	Oxidation Reduction Potention	-91.8	mv
GS-AP-MW-18	4/17/2019 16:30	pH	7.38	pH
GS-AP-MW-18	4/17/2019 16:30	Temperature	16.64	C
GS-AP-MW-18	4/17/2019 16:30	Turbidity	36.8	NTU
GS-AP-MW-18	4/17/2019 16:35	Conductivity	545.6	uS/cm
GS-AP-MW-18	4/17/2019 16:35	Depth to Water Detail	75.72	ft
GS-AP-MW-18	4/17/2019 16:35	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:35	Oxidation Reduction Potention	-90.8	mv
GS-AP-MW-18	4/17/2019 16:35	pH	7.38	pH
GS-AP-MW-18	4/17/2019 16:35	Temperature	16.63	C
GS-AP-MW-18	4/17/2019 16:35	Turbidity	26.6	NTU
GS-AP-MW-18	4/17/2019 16:41	Conductivity	546.1	uS/cm
GS-AP-MW-18	4/17/2019 16:41	Depth to Water Detail	76.6	ft
GS-AP-MW-18	4/17/2019 16:41	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:41	Oxidation Reduction Potention	-90.6	mv
GS-AP-MW-18	4/17/2019 16:41	pH	7.39	pH
GS-AP-MW-18	4/17/2019 16:41	Temperature	16.63	C
GS-AP-MW-18	4/17/2019 16:41	Turbidity	21.5	NTU
GS-AP-MW-18	4/17/2019 16:46	Conductivity	548.6	uS/cm
GS-AP-MW-18	4/17/2019 16:46	Depth to Water Detail	77.6	ft
GS-AP-MW-18	4/17/2019 16:46	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:46	Oxidation Reduction Potention	-94.4	mv
GS-AP-MW-18	4/17/2019 16:46	pH	7.41	pH
GS-AP-MW-18	4/17/2019 16:46	Temperature	16.63	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	4/17/2019 16:46	Turbidity	62	NTU
GS-AP-MW-18	4/17/2019 16:51	Conductivity	550.2	uS/cm
GS-AP-MW-18	4/17/2019 16:51	Depth to Water Detail	78.45	ft
GS-AP-MW-18	4/17/2019 16:51	DO	0.13	mg/L
GS-AP-MW-18	4/17/2019 16:51	Oxidation Reduction Potention	-92.9	mv
GS-AP-MW-18	4/17/2019 16:51	pH	7.42	pH
GS-AP-MW-18	4/17/2019 16:51	Temperature	16.64	C
GS-AP-MW-18	4/17/2019 16:51	Turbidity	56.1	NTU
GS-AP-MW-18	4/17/2019 16:56	Conductivity	552	uS/cm
GS-AP-MW-18	4/17/2019 16:56	Depth to Water Detail	78.56	ft
GS-AP-MW-18	4/17/2019 16:56	DO	0.14	mg/L
GS-AP-MW-18	4/17/2019 16:56	Oxidation Reduction Potention	-91.5	mv
GS-AP-MW-18	4/17/2019 16:56	pH	7.42	pH
GS-AP-MW-18	4/17/2019 16:56	Temperature	16.63	C
GS-AP-MW-18	4/17/2019 16:56	Turbidity	26.6	NTU
GS-AP-MW-18	4/17/2019 17:01	Conductivity	555	uS/cm
GS-AP-MW-18	4/17/2019 17:01	Depth to Water Detail	78.7	ft
GS-AP-MW-18	4/17/2019 17:01	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 17:01	Oxidation Reduction Potention	-93.5	mv
GS-AP-MW-18	4/17/2019 17:01	pH	7.43	pH
GS-AP-MW-18	4/17/2019 17:01	Temperature	16.62	C
GS-AP-MW-18	4/17/2019 17:01	Turbidity	42	NTU
GS-AP-MW-18	4/17/2019 17:06	Conductivity	557.6	uS/cm
GS-AP-MW-18	4/17/2019 17:06	Depth to Water Detail	78.7	ft
GS-AP-MW-18	4/17/2019 17:06	DO	0.15	mg/L
GS-AP-MW-18	4/17/2019 17:06	Oxidation Reduction Potention	-92.6	mv
GS-AP-MW-18	4/17/2019 17:06	pH	7.43	pH
GS-AP-MW-18	4/17/2019 17:06	Temperature	16.62	C
GS-AP-MW-18	4/17/2019 17:06	Turbidity	18.8	NTU
GS-AP-MW-18	4/17/2019 17:11	Conductivity	555.6	uS/cm
GS-AP-MW-18	4/17/2019 17:11	Depth to Water Detail	79.1	ft
GS-AP-MW-18	4/17/2019 17:11	DO	0.16	mg/L
GS-AP-MW-18	4/17/2019 17:11	Oxidation Reduction Potention	-93.1	mv
GS-AP-MW-18	4/17/2019 17:11	pH	7.43	pH
GS-AP-MW-18	4/17/2019 17:11	Temperature	16.61	C
GS-AP-MW-18	4/17/2019 17:11	Turbidity	13.9	NTU
GS-AP-MW-18	4/17/2019 17:16	Conductivity	560.7	uS/cm
GS-AP-MW-18	4/17/2019 17:16	Depth to Water Detail	79.31	ft
GS-AP-MW-18	4/17/2019 17:16	DO	0.21	mg/L
GS-AP-MW-18	4/17/2019 17:16	Oxidation Reduction Potention	-93.9	mv
GS-AP-MW-18	4/17/2019 17:16	pH	7.44	pH
GS-AP-MW-18	4/17/2019 17:16	Temperature	16.6	C
GS-AP-MW-18	4/17/2019 17:16	Turbidity	10.24	NTU
GS-AP-MW-18	4/17/2019 17:21	Conductivity	568.1	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	4/17/2019 17:21	Depth to Water Detail	79.64	ft
GS-AP-MW-18	4/17/2019 17:21	DO	0.22	mg/L
GS-AP-MW-18	4/17/2019 17:21	Oxidation Reduction Potention	-97.3	mv
GS-AP-MW-18	4/17/2019 17:21	pH	7.46	pH
GS-AP-MW-18	4/17/2019 17:21	Temperature	16.58	C
GS-AP-MW-18	4/17/2019 17:21	Turbidity	17.2	NTU
GS-AP-MW-18	4/17/2019 17:26	Conductivity	571.9	uS/cm
GS-AP-MW-18	4/17/2019 17:26	Depth to Water Detail	79.45	ft
GS-AP-MW-18	4/17/2019 17:26	DO	0.33	mg/L
GS-AP-MW-18	4/17/2019 17:26	Oxidation Reduction Potention	-98.3	mv
GS-AP-MW-18	4/17/2019 17:26	pH	7.47	pH
GS-AP-MW-18	4/17/2019 17:26	Temperature	16.73	C
GS-AP-MW-18	4/17/2019 17:26	Turbidity	16.9	NTU
GS-AP-MW-18	4/17/2019 17:31	Conductivity	569.6	uS/cm
GS-AP-MW-18	4/17/2019 17:31	Depth to Water Detail	79.1	ft
GS-AP-MW-18	4/17/2019 17:31	DO	0.33	mg/L
GS-AP-MW-18	4/17/2019 17:31	Oxidation Reduction Potention	-101.2	mv
GS-AP-MW-18	4/17/2019 17:31	pH	7.49	pH
GS-AP-MW-18	4/17/2019 17:31	Temperature	16.71	C
GS-AP-MW-18	4/17/2019 17:31	Turbidity	54	NTU
GS-AP-MW-18	4/17/2019 17:36	Conductivity	568.9	uS/cm
GS-AP-MW-18	4/17/2019 17:36	Depth to Water Detail	78.55	ft
GS-AP-MW-18	4/17/2019 17:36	DO	0.3	mg/L
GS-AP-MW-18	4/17/2019 17:36	Oxidation Reduction Potention	-109	mv
GS-AP-MW-18	4/17/2019 17:36	pH	7.52	pH
GS-AP-MW-18	4/17/2019 17:36	Temperature	16.75	C
GS-AP-MW-18	4/17/2019 17:36	Turbidity	54.3	NTU
GS-AP-MW-18	4/17/2019 17:41	Conductivity	569.9	uS/cm
GS-AP-MW-18	4/17/2019 17:41	Depth to Water Detail	77.95	ft
GS-AP-MW-18	4/17/2019 17:41	DO	0.28	mg/L
GS-AP-MW-18	4/17/2019 17:41	Oxidation Reduction Potention	-114.2	mv
GS-AP-MW-18	4/17/2019 17:41	pH	7.55	pH
GS-AP-MW-18	4/17/2019 17:41	Temperature	16.76	C
GS-AP-MW-18	4/17/2019 17:41	Turbidity	40.5	NTU
GS-AP-MW-18	4/17/2019 17:46	Conductivity	570.4	uS/cm
GS-AP-MW-18	4/17/2019 17:46	Depth to Water Detail	77.05	ft
GS-AP-MW-18	4/17/2019 17:46	DO	0.27	mg/L
GS-AP-MW-18	4/17/2019 17:46	Oxidation Reduction Potention	-116.5	mv
GS-AP-MW-18	4/17/2019 17:46	pH	7.56	pH
GS-AP-MW-18	4/17/2019 17:46	Temperature	16.8	C
GS-AP-MW-18	4/17/2019 17:46	Turbidity	30.02	NTU
GS-AP-MW-18	4/17/2019 17:51	Conductivity	571.8	uS/cm
GS-AP-MW-18	4/17/2019 17:51	Depth to Water Detail	76.3	ft
GS-AP-MW-18	4/17/2019 17:51	DO	0.27	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	4/17/2019 17:51	Oxidation Reduction Potention	-118	mv
GS-AP-MW-18	4/17/2019 17:51	pH	7.57	pH
GS-AP-MW-18	4/17/2019 17:51	Temperature	16.81	C
GS-AP-MW-18	4/17/2019 17:51	Turbidity	22.4	NTU
GS-AP-MW-18	4/17/2019 17:56	Conductivity	573.8	uS/cm
GS-AP-MW-18	4/17/2019 17:56	Depth to Water Detail	75.7	ft
GS-AP-MW-18	4/17/2019 17:56	DO	0.27	mg/L
GS-AP-MW-18	4/17/2019 17:56	Oxidation Reduction Potention	-119.1	mv
GS-AP-MW-18	4/17/2019 17:56	pH	7.57	pH
GS-AP-MW-18	4/17/2019 17:56	Temperature	16.76	C
GS-AP-MW-18	4/17/2019 17:56	Turbidity	14.4	NTU
GS-AP-MW-18	4/17/2019 18:01	Conductivity	575.6	uS/cm
GS-AP-MW-18	4/17/2019 18:01	Depth to Water Detail	75.11	ft
GS-AP-MW-18	4/17/2019 18:01	DO	0.27	mg/L
GS-AP-MW-18	4/17/2019 18:01	Oxidation Reduction Potention	-120.4	mv
GS-AP-MW-18	4/17/2019 18:01	pH	7.58	pH
GS-AP-MW-18	4/17/2019 18:01	Temperature	16.75	C
GS-AP-MW-18	4/17/2019 18:01	Turbidity	12	NTU
GS-AP-MW-18	4/17/2019 18:06	Conductivity	576.2	uS/cm
GS-AP-MW-18	4/17/2019 18:06	Depth to Water Detail	74.45	ft
GS-AP-MW-18	4/17/2019 18:06	DO	0.27	mg/L
GS-AP-MW-18	4/17/2019 18:06	Oxidation Reduction Potention	-121.8	mv
GS-AP-MW-18	4/17/2019 18:06	pH	7.58	pH
GS-AP-MW-18	4/17/2019 18:06	Temperature	16.74	C
GS-AP-MW-18	4/17/2019 18:06	Turbidity	9.34	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-19	4/17/2019 14:17	Conductivity	490.3	uS/cm
GS-AP-MW-19	4/17/2019 14:17	Depth to Water Detail	111.5	ft
GS-AP-MW-19	4/17/2019 14:17	DO	0.32	mg/L
GS-AP-MW-19	4/17/2019 14:17	Oxidation Reduction Potential	-124.6	mv
GS-AP-MW-19	4/17/2019 14:17	pH	8.09	pH
GS-AP-MW-19	4/17/2019 14:17	Temperature	18.5	C
GS-AP-MW-19	4/17/2019 14:17	Turbidity	1.7	NTU
GS-AP-MW-19	4/17/2019 14:22	Conductivity	490	uS/cm
GS-AP-MW-19	4/17/2019 14:22	Depth to Water Detail	111.5	ft
GS-AP-MW-19	4/17/2019 14:22	DO	0.24	mg/L
GS-AP-MW-19	4/17/2019 14:22	Oxidation Reduction Potential	-150.1	mv
GS-AP-MW-19	4/17/2019 14:22	pH	8.11	pH
GS-AP-MW-19	4/17/2019 14:22	Temperature	18.41	C
GS-AP-MW-19	4/17/2019 14:22	Turbidity	1.49	NTU
GS-AP-MW-19	4/17/2019 14:27	Conductivity	494.3	uS/cm
GS-AP-MW-19	4/17/2019 14:27	Depth to Water Detail	111.5	ft
GS-AP-MW-19	4/17/2019 14:27	DO	0.23	mg/L
GS-AP-MW-19	4/17/2019 14:27	Oxidation Reduction Potential	-159.2	mv
GS-AP-MW-19	4/17/2019 14:27	pH	8.08	pH
GS-AP-MW-19	4/17/2019 14:27	Temperature	18.23	C
GS-AP-MW-19	4/17/2019 14:27	Turbidity	1.61	NTU
GS-AP-MW-19	4/17/2019 14:32	Conductivity	499.3	uS/cm
GS-AP-MW-19	4/17/2019 14:32	Depth to Water Detail	111.5	ft
GS-AP-MW-19	4/17/2019 14:32	DO	0.23	mg/L
GS-AP-MW-19	4/17/2019 14:32	Oxidation Reduction Potential	-165.2	mv
GS-AP-MW-19	4/17/2019 14:32	pH	8.06	pH
GS-AP-MW-19	4/17/2019 14:32	Temperature	18.14	C
GS-AP-MW-19	4/17/2019 14:32	Turbidity	1.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-2	4/17/2019 13:03	Conductivity	649.7	uS/cm
GS-AP-MW-2	4/17/2019 13:03	Depth to Water Detail	146.65	ft
GS-AP-MW-2	4/17/2019 13:03	DO	2.33	mg/L
GS-AP-MW-2	4/17/2019 13:03	Oxidation Reduction Potention	-95.4	mv
GS-AP-MW-2	4/17/2019 13:03	pH	8.77	pH
GS-AP-MW-2	4/17/2019 13:03	Temperature	18.63	C
GS-AP-MW-2	4/17/2019 13:03	Turbidity	24.3	NTU
GS-AP-MW-2	4/17/2019 13:08	Conductivity	592.1	uS/cm
GS-AP-MW-2	4/17/2019 13:08	Depth to Water Detail	146.65	ft
GS-AP-MW-2	4/17/2019 13:08	DO	0.82	mg/L
GS-AP-MW-2	4/17/2019 13:08	Oxidation Reduction Potention	-39.5	mv
GS-AP-MW-2	4/17/2019 13:08	pH	9.13	pH
GS-AP-MW-2	4/17/2019 13:08	Temperature	18.37	C
GS-AP-MW-2	4/17/2019 13:08	Turbidity	3.45	NTU
GS-AP-MW-2	4/17/2019 13:13	Conductivity	578.7	uS/cm
GS-AP-MW-2	4/17/2019 13:13	Depth to Water Detail	146.65	ft
GS-AP-MW-2	4/17/2019 13:13	DO	0.56	mg/L
GS-AP-MW-2	4/17/2019 13:13	Oxidation Reduction Potention	-24.6	mv
GS-AP-MW-2	4/17/2019 13:13	pH	9.22	pH
GS-AP-MW-2	4/17/2019 13:13	Temperature	18.23	C
GS-AP-MW-2	4/17/2019 13:13	Turbidity	2.86	NTU
GS-AP-MW-2	4/17/2019 13:18	Conductivity	574.1	uS/cm
GS-AP-MW-2	4/17/2019 13:18	Depth to Water Detail	146.65	ft
GS-AP-MW-2	4/17/2019 13:18	DO	0.49	mg/L
GS-AP-MW-2	4/17/2019 13:18	Oxidation Reduction Potention	-22.4	mv
GS-AP-MW-2	4/17/2019 13:18	pH	9.25	pH
GS-AP-MW-2	4/17/2019 13:18	Temperature	18.1	C
GS-AP-MW-2	4/17/2019 13:18	Turbidity	2.79	NTU
GS-AP-MW-2	4/17/2019 13:23	Conductivity	571.1	uS/cm
GS-AP-MW-2	4/17/2019 13:23	Depth to Water Detail	146.65	ft
GS-AP-MW-2	4/17/2019 13:23	DO	0.46	mg/L
GS-AP-MW-2	4/17/2019 13:23	Oxidation Reduction Potention	-21.2	mv
GS-AP-MW-2	4/17/2019 13:23	pH	9.26	pH
GS-AP-MW-2	4/17/2019 13:23	Temperature	18.01	C
GS-AP-MW-2	4/17/2019 13:23	Turbidity	2.23	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-21	4/17/2019 14:55	Conductivity	880.6	uS/cm
GS-AP-MW-21	4/17/2019 14:55	Depth to Water Detail	160.95	ft
GS-AP-MW-21	4/17/2019 14:55	DO	6.99	mg/L
GS-AP-MW-21	4/17/2019 14:55	Oxidation Reduction Potention	65.3	mv
GS-AP-MW-21	4/17/2019 14:55	pH	10.23	pH
GS-AP-MW-21	4/17/2019 14:55	Temperature	20.93	C
GS-AP-MW-21	4/17/2019 14:55	Turbidity	1.14	NTU
GS-AP-MW-21	4/17/2019 15:00	Conductivity	1043	uS/cm
GS-AP-MW-21	4/17/2019 15:00	Depth to Water Detail	161.05	ft
GS-AP-MW-21	4/17/2019 15:00	DO	2.75	mg/L
GS-AP-MW-21	4/17/2019 15:00	Oxidation Reduction Potention	15.3	mv
GS-AP-MW-21	4/17/2019 15:00	pH	11.2	pH
GS-AP-MW-21	4/17/2019 15:00	Temperature	19.9	C
GS-AP-MW-21	4/17/2019 15:00	Turbidity	1.36	NTU
GS-AP-MW-21	4/17/2019 15:05	Conductivity	1580.5	uS/cm
GS-AP-MW-21	4/17/2019 15:05	Depth to Water Detail	161.15	ft
GS-AP-MW-21	4/17/2019 15:05	DO	1.14	mg/L
GS-AP-MW-21	4/17/2019 15:05	Oxidation Reduction Potention	-5.3	mv
GS-AP-MW-21	4/17/2019 15:05	pH	11.66	pH
GS-AP-MW-21	4/17/2019 15:05	Temperature	19.53	C
GS-AP-MW-21	4/17/2019 15:05	Turbidity	1.38	NTU
GS-AP-MW-21	4/17/2019 15:10	Conductivity	1724.3	uS/cm
GS-AP-MW-21	4/17/2019 15:10	Depth to Water Detail	161.22	ft
GS-AP-MW-21	4/17/2019 15:10	DO	0.79	mg/L
GS-AP-MW-21	4/17/2019 15:10	Oxidation Reduction Potention	-14.7	mv
GS-AP-MW-21	4/17/2019 15:10	pH	11.72	pH
GS-AP-MW-21	4/17/2019 15:10	Temperature	19.33	C
GS-AP-MW-21	4/17/2019 15:10	Turbidity	1.44	NTU
GS-AP-MW-21	4/17/2019 15:15	Conductivity	1741	uS/cm
GS-AP-MW-21	4/17/2019 15:15	Depth to Water Detail	161.25	ft
GS-AP-MW-21	4/17/2019 15:15	DO	0.71	mg/L
GS-AP-MW-21	4/17/2019 15:15	Oxidation Reduction Potention	-25.1	mv
GS-AP-MW-21	4/17/2019 15:15	pH	11.73	pH
GS-AP-MW-21	4/17/2019 15:15	Temperature	19.2	C
GS-AP-MW-21	4/17/2019 15:15	Turbidity	0.7	NTU
GS-AP-MW-21	4/17/2019 15:20	Conductivity	1699	uS/cm
GS-AP-MW-21	4/17/2019 15:20	Depth to Water Detail	161.29	ft
GS-AP-MW-21	4/17/2019 15:20	DO	0.67	mg/L
GS-AP-MW-21	4/17/2019 15:20	Oxidation Reduction Potention	-36.3	mv
GS-AP-MW-21	4/17/2019 15:20	pH	11.71	pH
GS-AP-MW-21	4/17/2019 15:20	Temperature	19.11	C
GS-AP-MW-21	4/17/2019 15:20	Turbidity	0.6	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-6D	4/16/2019 10:24	Conductivity	485.1	uS/cm
GS-AP-MW-6D	4/16/2019 10:24	Depth to Water Detail	11.86	ft
GS-AP-MW-6D	4/16/2019 10:24	DO	0.28	mg/L
GS-AP-MW-6D	4/16/2019 10:24	Oxidation Reduction Potential	-118.4	mv
GS-AP-MW-6D	4/16/2019 10:24	pH	7.24	pH
GS-AP-MW-6D	4/16/2019 10:24	Temperature	16.37	C
GS-AP-MW-6D	4/16/2019 10:24	Turbidity	1.94	NTU
GS-AP-MW-6D	4/16/2019 10:29	Conductivity	486.6	uS/cm
GS-AP-MW-6D	4/16/2019 10:29	Depth to Water Detail	11.86	ft
GS-AP-MW-6D	4/16/2019 10:29	DO	0.22	mg/L
GS-AP-MW-6D	4/16/2019 10:29	Oxidation Reduction Potential	-118.8	mv
GS-AP-MW-6D	4/16/2019 10:29	pH	7.25	pH
GS-AP-MW-6D	4/16/2019 10:29	Temperature	16.44	C
GS-AP-MW-6D	4/16/2019 10:29	Turbidity	1.18	NTU
GS-AP-MW-6D	4/16/2019 10:34	Conductivity	488.1	uS/cm
GS-AP-MW-6D	4/16/2019 10:34	Depth to Water Detail	11.86	ft
GS-AP-MW-6D	4/16/2019 10:34	DO	0.22	mg/L
GS-AP-MW-6D	4/16/2019 10:34	Oxidation Reduction Potential	-118.6	mv
GS-AP-MW-6D	4/16/2019 10:34	pH	7.25	pH
GS-AP-MW-6D	4/16/2019 10:34	Temperature	16.46	C
GS-AP-MW-6D	4/16/2019 10:34	Turbidity	1.2	NTU
GS-AP-MW-6D	4/16/2019 10:39	Conductivity	488.9	uS/cm
GS-AP-MW-6D	4/16/2019 10:39	Depth to Water Detail	11.86	ft
GS-AP-MW-6D	4/16/2019 10:39	DO	0.21	mg/L
GS-AP-MW-6D	4/16/2019 10:39	Oxidation Reduction Potential	-118.1	mv
GS-AP-MW-6D	4/16/2019 10:39	pH	7.26	pH
GS-AP-MW-6D	4/16/2019 10:39	Temperature	16.53	C
GS-AP-MW-6D	4/16/2019 10:39	Turbidity	1.03	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-6S	4/16/2019 11:11	Conductivity	636.7	uS/cm
GS-AP-MW-6S	4/16/2019 11:11	Depth to Water Detail	17.96	ft
GS-AP-MW-6S	4/16/2019 11:11	DO	0.17	mg/L
GS-AP-MW-6S	4/16/2019 11:11	Oxidation Reduction Potention	-105.8	mv
GS-AP-MW-6S	4/16/2019 11:11	pH	6.81	pH
GS-AP-MW-6S	4/16/2019 11:11	Temperature	16.22	C
GS-AP-MW-6S	4/16/2019 11:11	Turbidity	17	NTU
GS-AP-MW-6S	4/16/2019 11:16	Conductivity	637.1	uS/cm
GS-AP-MW-6S	4/16/2019 11:16	Depth to Water Detail	17.96	ft
GS-AP-MW-6S	4/16/2019 11:16	DO	0.15	mg/L
GS-AP-MW-6S	4/16/2019 11:16	Oxidation Reduction Potention	-101.6	mv
GS-AP-MW-6S	4/16/2019 11:16	pH	6.82	pH
GS-AP-MW-6S	4/16/2019 11:16	Temperature	16.14	C
GS-AP-MW-6S	4/16/2019 11:16	Turbidity	26.2	NTU
GS-AP-MW-6S	4/16/2019 11:21	Conductivity	637.8	uS/cm
GS-AP-MW-6S	4/16/2019 11:21	Depth to Water Detail	17.96	ft
GS-AP-MW-6S	4/16/2019 11:21	DO	0.13	mg/L
GS-AP-MW-6S	4/16/2019 11:21	Oxidation Reduction Potention	-98.3	mv
GS-AP-MW-6S	4/16/2019 11:21	pH	6.81	pH
GS-AP-MW-6S	4/16/2019 11:21	Temperature	16.09	C
GS-AP-MW-6S	4/16/2019 11:21	Turbidity	13.5	NTU
GS-AP-MW-6S	4/16/2019 11:26	Conductivity	637.9	uS/cm
GS-AP-MW-6S	4/16/2019 11:26	Depth to Water Detail	17.96	ft
GS-AP-MW-6S	4/16/2019 11:26	DO	0.12	mg/L
GS-AP-MW-6S	4/16/2019 11:26	Oxidation Reduction Potention	-96	mv
GS-AP-MW-6S	4/16/2019 11:26	pH	6.81	pH
GS-AP-MW-6S	4/16/2019 11:26	Temperature	16.09	C
GS-AP-MW-6S	4/16/2019 11:26	Turbidity	10.34	NTU
GS-AP-MW-6S	4/16/2019 11:31	Conductivity	637.9	uS/cm
GS-AP-MW-6S	4/16/2019 11:31	Depth to Water Detail	17.96	ft
GS-AP-MW-6S	4/16/2019 11:31	DO	0.12	mg/L
GS-AP-MW-6S	4/16/2019 11:31	Oxidation Reduction Potention	-94.2	mv
GS-AP-MW-6S	4/16/2019 11:31	pH	6.82	pH
GS-AP-MW-6S	4/16/2019 11:31	Temperature	16.1	C
GS-AP-MW-6S	4/16/2019 11:31	Turbidity	8.16	NTU
GS-AP-MW-6S	4/16/2019 11:36	Conductivity	637.6	uS/cm
GS-AP-MW-6S	4/16/2019 11:36	Depth to Water Detail	17.96	ft
GS-AP-MW-6S	4/16/2019 11:36	DO	0.12	mg/L
GS-AP-MW-6S	4/16/2019 11:36	Oxidation Reduction Potention	-92.4	mv
GS-AP-MW-6S	4/16/2019 11:36	pH	6.82	pH
GS-AP-MW-6S	4/16/2019 11:36	Temperature	16.09	C
GS-AP-MW-6S	4/16/2019 11:36	Turbidity	8.56	NTU
GS-AP-MW-6S	4/16/2019 11:41	Conductivity	637	uS/cm
GS-AP-MW-6S	4/16/2019 11:41	Depth to Water Detail	17.96	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-6S	4/16/2019 11:41	DO	0.11	mg/L
GS-AP-MW-6S	4/16/2019 11:41	Oxidation Reduction Potention	-90.6	mv
GS-AP-MW-6S	4/16/2019 11:41	pH	6.82	pH
GS-AP-MW-6S	4/16/2019 11:41	Temperature	16.09	C
GS-AP-MW-6S	4/16/2019 11:41	Turbidity	7.83	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	4/23/2019 8:25	Conductivity	524.6	uS/cm
GS-AP-MW-7	4/23/2019 8:25	Depth to Water Detail	9.13	ft
GS-AP-MW-7	4/23/2019 8:25	DO	2.5	mg/L
GS-AP-MW-7	4/23/2019 8:25	Oxidation Reduction Potention	-76.7	mv
GS-AP-MW-7	4/23/2019 8:25	pH	7.41	pH
GS-AP-MW-7	4/23/2019 8:25	Temperature	17.45	C
GS-AP-MW-7	4/23/2019 8:25	Turbidity	29.9	NTU
GS-AP-MW-7	4/23/2019 8:30	Conductivity	526.8	uS/cm
GS-AP-MW-7	4/23/2019 8:30	Depth to Water Detail	9.26	ft
GS-AP-MW-7	4/23/2019 8:30	DO	1.3	mg/L
GS-AP-MW-7	4/23/2019 8:30	Oxidation Reduction Potention	-103.5	mv
GS-AP-MW-7	4/23/2019 8:30	pH	7.63	pH
GS-AP-MW-7	4/23/2019 8:30	Temperature	17.24	C
GS-AP-MW-7	4/23/2019 8:30	Turbidity	72.9	NTU
GS-AP-MW-7	4/23/2019 8:35	Conductivity	526.3	uS/cm
GS-AP-MW-7	4/23/2019 8:35	Depth to Water Detail	9.26	ft
GS-AP-MW-7	4/23/2019 8:35	DO	0.86	mg/L
GS-AP-MW-7	4/23/2019 8:35	Oxidation Reduction Potention	-115.6	mv
GS-AP-MW-7	4/23/2019 8:35	pH	7.7	pH
GS-AP-MW-7	4/23/2019 8:35	Temperature	17.36	C
GS-AP-MW-7	4/23/2019 8:35	Turbidity	640	NTU
GS-AP-MW-7	4/23/2019 8:40	Conductivity	523.9	uS/cm
GS-AP-MW-7	4/23/2019 8:40	Depth to Water Detail	9.3	ft
GS-AP-MW-7	4/23/2019 8:40	DO	0.64	mg/L
GS-AP-MW-7	4/23/2019 8:40	Oxidation Reduction Potention	-121.3	mv
GS-AP-MW-7	4/23/2019 8:40	pH	7.72	pH
GS-AP-MW-7	4/23/2019 8:40	Temperature	17.57	C
GS-AP-MW-7	4/23/2019 8:40	Turbidity	642	NTU
GS-AP-MW-7	4/23/2019 8:45	Conductivity	524.2	uS/cm
GS-AP-MW-7	4/23/2019 8:45	Depth to Water Detail	9.3	ft
GS-AP-MW-7	4/23/2019 8:45	DO	0.5	mg/L
GS-AP-MW-7	4/23/2019 8:45	Oxidation Reduction Potention	-125.3	mv
GS-AP-MW-7	4/23/2019 8:45	pH	7.75	pH
GS-AP-MW-7	4/23/2019 8:45	Temperature	17.56	C
GS-AP-MW-7	4/23/2019 8:45	Turbidity	710	NTU
GS-AP-MW-7	4/23/2019 8:50	Conductivity	523.6	uS/cm
GS-AP-MW-7	4/23/2019 8:50	Depth to Water Detail	9.34	ft
GS-AP-MW-7	4/23/2019 8:50	DO	0.44	mg/L
GS-AP-MW-7	4/23/2019 8:50	Oxidation Reduction Potention	-128.4	mv
GS-AP-MW-7	4/23/2019 8:50	pH	7.76	pH
GS-AP-MW-7	4/23/2019 8:50	Temperature	17.81	C
GS-AP-MW-7	4/23/2019 8:50	Turbidity	735	NTU
GS-AP-MW-7	4/23/2019 8:55	Conductivity	525.7	uS/cm
GS-AP-MW-7	4/23/2019 8:55	Depth to Water Detail	9.32	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	4/23/2019 8:55	DO	0.41	mg/L
GS-AP-MW-7	4/23/2019 8:55	Oxidation Reduction Potention	-129.2	mv
GS-AP-MW-7	4/23/2019 8:55	pH	7.76	pH
GS-AP-MW-7	4/23/2019 8:55	Temperature	17.67	C
GS-AP-MW-7	4/23/2019 8:55	Turbidity	776	NTU
GS-AP-MW-7	4/23/2019 9:00	Conductivity	525.5	uS/cm
GS-AP-MW-7	4/23/2019 9:00	Depth to Water Detail	9.34	ft
GS-AP-MW-7	4/23/2019 9:00	DO	0.39	mg/L
GS-AP-MW-7	4/23/2019 9:00	Oxidation Reduction Potention	-131.8	mv
GS-AP-MW-7	4/23/2019 9:00	pH	7.79	pH
GS-AP-MW-7	4/23/2019 9:00	Temperature	17.76	C
GS-AP-MW-7	4/23/2019 9:00	Turbidity	788	NTU
GS-AP-MW-7	4/23/2019 9:05	Conductivity	525.7	uS/cm
GS-AP-MW-7	4/23/2019 9:05	Depth to Water Detail	9.34	ft
GS-AP-MW-7	4/23/2019 9:05	DO	0.39	mg/L
GS-AP-MW-7	4/23/2019 9:05	Oxidation Reduction Potention	-132.4	mv
GS-AP-MW-7	4/23/2019 9:05	pH	7.79	pH
GS-AP-MW-7	4/23/2019 9:05	Temperature	17.86	C
GS-AP-MW-7	4/23/2019 9:05	Turbidity	727	NTU
GS-AP-MW-7	4/23/2019 9:10	Conductivity	522.1	uS/cm
GS-AP-MW-7	4/23/2019 9:10	Depth to Water Detail	9.64	ft
GS-AP-MW-7	4/23/2019 9:10	DO	0.27	mg/L
GS-AP-MW-7	4/23/2019 9:10	Oxidation Reduction Potention	-134.4	mv
GS-AP-MW-7	4/23/2019 9:10	pH	7.8	pH
GS-AP-MW-7	4/23/2019 9:10	Temperature	17.74	C
GS-AP-MW-7	4/23/2019 9:10	Turbidity	680	NTU
GS-AP-MW-7	4/23/2019 9:15	Conductivity	527.3	uS/cm
GS-AP-MW-7	4/23/2019 9:15	Depth to Water Detail	9.83	ft
GS-AP-MW-7	4/23/2019 9:15	DO	0.2	mg/L
GS-AP-MW-7	4/23/2019 9:15	Oxidation Reduction Potention	-150.4	mv
GS-AP-MW-7	4/23/2019 9:15	pH	7.82	pH
GS-AP-MW-7	4/23/2019 9:15	Temperature	17.28	C
GS-AP-MW-7	4/23/2019 9:15	Turbidity	678	NTU
GS-AP-MW-7	4/23/2019 9:20	Conductivity	526.8	uS/cm
GS-AP-MW-7	4/23/2019 9:20	Depth to Water Detail	9.92	ft
GS-AP-MW-7	4/23/2019 9:20	DO	0.22	mg/L
GS-AP-MW-7	4/23/2019 9:20	Oxidation Reduction Potention	-146.3	mv
GS-AP-MW-7	4/23/2019 9:20	pH	7.82	pH
GS-AP-MW-7	4/23/2019 9:20	Temperature	17.38	C
GS-AP-MW-7	4/23/2019 9:20	Turbidity	0	NTU
GS-AP-MW-7	4/23/2019 9:25	Conductivity	525.3	uS/cm
GS-AP-MW-7	4/23/2019 9:25	Depth to Water Detail	10.02	ft
GS-AP-MW-7	4/23/2019 9:25	DO	0.21	mg/L
GS-AP-MW-7	4/23/2019 9:25	Oxidation Reduction Potention	-143.7	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	4/23/2019 9:25	pH	7.83	pH
GS-AP-MW-7	4/23/2019 9:25	Temperature	17.37	C
GS-AP-MW-7	4/23/2019 9:25	Turbidity	0	NTU
GS-AP-MW-7	4/23/2019 9:30	Conductivity	526.5	uS/cm
GS-AP-MW-7	4/23/2019 9:30	Depth to Water Detail	10.05	ft
GS-AP-MW-7	4/23/2019 9:30	DO	0.23	mg/L
GS-AP-MW-7	4/23/2019 9:30	Oxidation Reduction Potention	-148.4	mv
GS-AP-MW-7	4/23/2019 9:30	pH	7.83	pH
GS-AP-MW-7	4/23/2019 9:30	Temperature	17.24	C
GS-AP-MW-7	4/23/2019 9:30	Turbidity	76.1	NTU
GS-AP-MW-7	4/23/2019 9:35	Conductivity	528	uS/cm
GS-AP-MW-7	4/23/2019 9:35	Depth to Water Detail	10.05	ft
GS-AP-MW-7	4/23/2019 9:35	DO	0.25	mg/L
GS-AP-MW-7	4/23/2019 9:35	Oxidation Reduction Potention	-141.3	mv
GS-AP-MW-7	4/23/2019 9:35	pH	7.83	pH
GS-AP-MW-7	4/23/2019 9:35	Temperature	17.16	C
GS-AP-MW-7	4/23/2019 9:35	Turbidity	77.1	NTU
GS-AP-MW-7	4/23/2019 9:40	Conductivity	527.2	uS/cm
GS-AP-MW-7	4/23/2019 9:40	Depth to Water Detail	10.05	ft
GS-AP-MW-7	4/23/2019 9:40	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 9:40	Oxidation Reduction Potention	-141.1	mv
GS-AP-MW-7	4/23/2019 9:40	pH	7.83	pH
GS-AP-MW-7	4/23/2019 9:40	Temperature	17.15	C
GS-AP-MW-7	4/23/2019 9:40	Turbidity	66.7	NTU
GS-AP-MW-7	4/23/2019 9:45	Conductivity	526.1	uS/cm
GS-AP-MW-7	4/23/2019 9:45	Depth to Water Detail	10.08	ft
GS-AP-MW-7	4/23/2019 9:45	DO	0.25	mg/L
GS-AP-MW-7	4/23/2019 9:45	Oxidation Reduction Potention	-140.3	mv
GS-AP-MW-7	4/23/2019 9:45	pH	7.82	pH
GS-AP-MW-7	4/23/2019 9:45	Temperature	17.23	C
GS-AP-MW-7	4/23/2019 9:45	Turbidity	62.6	NTU
GS-AP-MW-7	4/23/2019 9:50	Conductivity	525.4	uS/cm
GS-AP-MW-7	4/23/2019 9:50	Depth to Water Detail	10.13	ft
GS-AP-MW-7	4/23/2019 9:50	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 9:50	Oxidation Reduction Potention	-141	mv
GS-AP-MW-7	4/23/2019 9:50	pH	7.83	pH
GS-AP-MW-7	4/23/2019 9:50	Temperature	17.2	C
GS-AP-MW-7	4/23/2019 9:50	Turbidity	63.4	NTU
GS-AP-MW-7	4/23/2019 9:55	Conductivity	526.1	uS/cm
GS-AP-MW-7	4/23/2019 9:55	Depth to Water Detail	10.2	ft
GS-AP-MW-7	4/23/2019 9:55	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 9:55	Oxidation Reduction Potention	-140.8	mv
GS-AP-MW-7	4/23/2019 9:55	pH	7.82	pH
GS-AP-MW-7	4/23/2019 9:55	Temperature	17.19	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	4/23/2019 9:55	Turbidity	62.3	NTU
GS-AP-MW-7	4/23/2019 10:00	Conductivity	527.5	uS/cm
GS-AP-MW-7	4/23/2019 10:00	Depth to Water Detail	10.25	ft
GS-AP-MW-7	4/23/2019 10:00	DO	0.26	mg/L
GS-AP-MW-7	4/23/2019 10:00	Oxidation Reduction Potention	-140.3	mv
GS-AP-MW-7	4/23/2019 10:00	pH	7.81	pH
GS-AP-MW-7	4/23/2019 10:00	Temperature	17.19	C
GS-AP-MW-7	4/23/2019 10:00	Turbidity	51.7	NTU
GS-AP-MW-7	4/23/2019 10:05	Conductivity	525.2	uS/cm
GS-AP-MW-7	4/23/2019 10:05	Depth to Water Detail	10.28	ft
GS-AP-MW-7	4/23/2019 10:05	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 10:05	Oxidation Reduction Potention	-141.3	mv
GS-AP-MW-7	4/23/2019 10:05	pH	7.82	pH
GS-AP-MW-7	4/23/2019 10:05	Temperature	17.33	C
GS-AP-MW-7	4/23/2019 10:05	Turbidity	44.5	NTU
GS-AP-MW-7	4/23/2019 10:10	Conductivity	523.6	uS/cm
GS-AP-MW-7	4/23/2019 10:10	Depth to Water Detail	10.31	ft
GS-AP-MW-7	4/23/2019 10:10	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 10:10	Oxidation Reduction Potention	-141	mv
GS-AP-MW-7	4/23/2019 10:10	pH	7.82	pH
GS-AP-MW-7	4/23/2019 10:10	Temperature	17.45	C
GS-AP-MW-7	4/23/2019 10:10	Turbidity	56.7	NTU
GS-AP-MW-7	4/23/2019 10:15	Conductivity	524.2	uS/cm
GS-AP-MW-7	4/23/2019 10:15	Depth to Water Detail	10.34	ft
GS-AP-MW-7	4/23/2019 10:15	DO	0.23	mg/L
GS-AP-MW-7	4/23/2019 10:15	Oxidation Reduction Potention	-141.8	mv
GS-AP-MW-7	4/23/2019 10:15	pH	7.83	pH
GS-AP-MW-7	4/23/2019 10:15	Temperature	17.49	C
GS-AP-MW-7	4/23/2019 10:15	Turbidity	50.1	NTU
GS-AP-MW-7	4/23/2019 10:20	Conductivity	524.3	uS/cm
GS-AP-MW-7	4/23/2019 10:20	Depth to Water Detail	10.36	ft
GS-AP-MW-7	4/23/2019 10:20	DO	0.23	mg/L
GS-AP-MW-7	4/23/2019 10:20	Oxidation Reduction Potention	-141.9	mv
GS-AP-MW-7	4/23/2019 10:20	pH	7.82	pH
GS-AP-MW-7	4/23/2019 10:20	Temperature	17.5	C
GS-AP-MW-7	4/23/2019 10:20	Turbidity	57.6	NTU
GS-AP-MW-7	4/23/2019 10:25	Conductivity	523.9	uS/cm
GS-AP-MW-7	4/23/2019 10:25	Depth to Water Detail	10.38	ft
GS-AP-MW-7	4/23/2019 10:25	DO	0.25	mg/L
GS-AP-MW-7	4/23/2019 10:25	Oxidation Reduction Potention	-141	mv
GS-AP-MW-7	4/23/2019 10:25	pH	7.82	pH
GS-AP-MW-7	4/23/2019 10:25	Temperature	17.76	C
GS-AP-MW-7	4/23/2019 10:25	Turbidity	45.4	NTU
GS-AP-MW-7	4/23/2019 10:30	Conductivity	523.3	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	4/23/2019 10:30	Depth to Water Detail	10.4	ft
GS-AP-MW-7	4/23/2019 10:30	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 10:30	Oxidation Reduction Potention	-141.8	mv
GS-AP-MW-7	4/23/2019 10:30	pH	7.83	pH
GS-AP-MW-7	4/23/2019 10:30	Temperature	17.67	C
GS-AP-MW-7	4/23/2019 10:30	Turbidity	49.2	NTU
GS-AP-MW-7	4/23/2019 10:35	Conductivity	523.8	uS/cm
GS-AP-MW-7	4/23/2019 10:35	Depth to Water Detail	10.43	ft
GS-AP-MW-7	4/23/2019 10:35	DO	0.24	mg/L
GS-AP-MW-7	4/23/2019 10:35	Oxidation Reduction Potention	-141.4	mv
GS-AP-MW-7	4/23/2019 10:35	pH	7.83	pH
GS-AP-MW-7	4/23/2019 10:35	Temperature	17.51	C
GS-AP-MW-7	4/23/2019 10:35	Turbidity	47.1	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-8	4/16/2019 12:41	Conductivity	137.2	uS/cm
GS-AP-MW-8	4/16/2019 12:41	Depth to Water Detail	44.14	ft
GS-AP-MW-8	4/16/2019 12:41	DO	0.89	mg/L
GS-AP-MW-8	4/16/2019 12:41	Oxidation Reduction Potential	141	mv
GS-AP-MW-8	4/16/2019 12:41	pH	5.8	pH
GS-AP-MW-8	4/16/2019 12:41	Temperature	19.73	C
GS-AP-MW-8	4/16/2019 12:41	Turbidity	19.1	NTU
GS-AP-MW-8	4/16/2019 12:46	Conductivity	137.4	uS/cm
GS-AP-MW-8	4/16/2019 12:46	Depth to Water Detail	44.3	ft
GS-AP-MW-8	4/16/2019 12:46	DO	0.81	mg/L
GS-AP-MW-8	4/16/2019 12:46	Oxidation Reduction Potential	151.9	mv
GS-AP-MW-8	4/16/2019 12:46	pH	5.78	pH
GS-AP-MW-8	4/16/2019 12:46	Temperature	19.66	C
GS-AP-MW-8	4/16/2019 12:46	Turbidity	5.03	NTU
GS-AP-MW-8	4/16/2019 12:51	Conductivity	136.6	uS/cm
GS-AP-MW-8	4/16/2019 12:51	Depth to Water Detail	44.34	ft
GS-AP-MW-8	4/16/2019 12:51	DO	0.78	mg/L
GS-AP-MW-8	4/16/2019 12:51	Oxidation Reduction Potential	159.9	mv
GS-AP-MW-8	4/16/2019 12:51	pH	5.77	pH
GS-AP-MW-8	4/16/2019 12:51	Temperature	19.59	C
GS-AP-MW-8	4/16/2019 12:51	Turbidity	2.37	NTU
GS-AP-MW-8	4/16/2019 12:56	Conductivity	136.4	uS/cm
GS-AP-MW-8	4/16/2019 12:56	Depth to Water Detail	44.46	ft
GS-AP-MW-8	4/16/2019 12:56	DO	0.76	mg/L
GS-AP-MW-8	4/16/2019 12:56	Oxidation Reduction Potential	164.6	mv
GS-AP-MW-8	4/16/2019 12:56	pH	5.76	pH
GS-AP-MW-8	4/16/2019 12:56	Temperature	19.61	C
GS-AP-MW-8	4/16/2019 12:56	Turbidity	1.55	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-9	4/16/2019 13:47	Conductivity	598.5	uS/cm
GS-AP-MW-9	4/16/2019 13:47	Depth to Water Detail	45.44	ft
GS-AP-MW-9	4/16/2019 13:47	DO	0.91	mg/L
GS-AP-MW-9	4/16/2019 13:47	Oxidation Reduction Potention	-57.3	mv
GS-AP-MW-9	4/16/2019 13:47	pH	6.72	pH
GS-AP-MW-9	4/16/2019 13:47	Temperature	19.7	C
GS-AP-MW-9	4/16/2019 13:47	Turbidity	3	NTU
GS-AP-MW-9	4/16/2019 13:52	Conductivity	607.8	uS/cm
GS-AP-MW-9	4/16/2019 13:52	Depth to Water Detail	45.55	ft
GS-AP-MW-9	4/16/2019 13:52	DO	0.69	mg/L
GS-AP-MW-9	4/16/2019 13:52	Oxidation Reduction Potention	-46.7	mv
GS-AP-MW-9	4/16/2019 13:52	pH	6.68	pH
GS-AP-MW-9	4/16/2019 13:52	Temperature	19.3	C
GS-AP-MW-9	4/16/2019 13:52	Turbidity	1.94	NTU
GS-AP-MW-9	4/16/2019 13:57	Conductivity	610	uS/cm
GS-AP-MW-9	4/16/2019 13:57	Depth to Water Detail	45.75	ft
GS-AP-MW-9	4/16/2019 13:57	DO	0.59	mg/L
GS-AP-MW-9	4/16/2019 13:57	Oxidation Reduction Potention	-42.8	mv
GS-AP-MW-9	4/16/2019 13:57	pH	6.68	pH
GS-AP-MW-9	4/16/2019 13:57	Temperature	19.08	C
GS-AP-MW-9	4/16/2019 13:57	Turbidity	1.42	NTU
GS-AP-MW-9	4/16/2019 14:02	Conductivity	611.2	uS/cm
GS-AP-MW-9	4/16/2019 14:02	Depth to Water Detail	45.84	ft
GS-AP-MW-9	4/16/2019 14:02	DO	0.54	mg/L
GS-AP-MW-9	4/16/2019 14:02	Oxidation Reduction Potention	-40.1	mv
GS-AP-MW-9	4/16/2019 14:02	pH	6.68	pH
GS-AP-MW-9	4/16/2019 14:02	Temperature	19.01	C
GS-AP-MW-9	4/16/2019 14:02	Turbidity	1.42	NTU
GS-AP-MW-9	4/16/2019 14:07	Conductivity	610.7	uS/cm
GS-AP-MW-9	4/16/2019 14:07	Depth to Water Detail	45.91	ft
GS-AP-MW-9	4/16/2019 14:07	DO	0.52	mg/L
GS-AP-MW-9	4/16/2019 14:07	Oxidation Reduction Potention	-37.9	mv
GS-AP-MW-9	4/16/2019 14:07	pH	6.68	pH
GS-AP-MW-9	4/16/2019 14:07	Temperature	18.94	C
GS-AP-MW-9	4/16/2019 14:07	Turbidity	1.43	NTU
GS-AP-MW-9	4/16/2019 14:12	Conductivity	610.9	uS/cm
GS-AP-MW-9	4/16/2019 14:12	Depth to Water Detail	45.96	ft
GS-AP-MW-9	4/16/2019 14:12	DO	0.51	mg/L
GS-AP-MW-9	4/16/2019 14:12	Oxidation Reduction Potention	-36.1	mv
GS-AP-MW-9	4/16/2019 14:12	pH	6.69	pH
GS-AP-MW-9	4/16/2019 14:12	Temperature	18.86	C
GS-AP-MW-9	4/16/2019 14:12	Turbidity	1.41	NTU

2nd
Semi-Annual
Monitoring Event

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

Field Case Narrative



Gorgas Ash Pond

2019 Compliance Event 2

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

Turbidity levels less than 10 NTU were not able to be achieved after extended pumping for wells MW-7 and MW-26H. A complete sample set for totals analysis was collected followed by a field filtered set for dissolved analysis.

Well MW-18V could not be sampled due to drawdown. The well was pumped dry at 100 ml/min and only recovered 1 foot the following day.

The first 19 pH field readings for well MW-12V were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Field quality control procedures were performed as follows:

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

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

Analytical Report



Sample Group : WMWGORAP_1241

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

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

Attention : Dustin Brooks & Greg Dyer

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

November 04, 2019

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2019. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2020

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkiff@southernco.com, c=US
Date: 2019.11.04 14:52:54 -06'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2019.11.05 08:34:44 -06'00'



REPORT OF LABORATORY ANALYSIS

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



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21811	656832	WMWGORAP_1241
AZ21812	656832	WMWGORAP_1241
AZ21813	656832	WMWGORAP_1241
AZ21814	656832	WMWGORAP_1241
AZ21815	656832	WMWGORAP_1241
AZ21816	656832	WMWGORAP_1241
AZ21817	656832	WMWGORAP_1241
AZ21818	656832	WMWGORAP_1241
AZ21819	656832	WMWGORAP_1241
AZ21820	656832	WMWGORAP_1241
AZ21821	656833	WMWGORAP_1241
AZ21822	656833	WMWGORAP_1241
AZ21823	656833	WMWGORAP_1241
AZ21824	656833	WMWGORAP_1241
AZ21825	656833	WMWGORAP_1241
AZ21826	656833	WMWGORAP_1241
AZ21827	656833	WMWGORAP_1241
AZ21828	656833	WMWGORAP_1241
AZ21829	656833	WMWGORAP_1241
AZ21831	656833	WMWGORAP_1241
AZ21832	656834	WMWGORAP_1241
AZ21833	656834	WMWGORAP_1241
AZ21835	656834	WMWGORAP_1241
AZ21836	656834	WMWGORAP_1241

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.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ21813	Calcium	20.3
AZ21814	Calcium	20.3
AZ21815	Calcium	20.3
AZ21816	Calcium	20.3
AZ21819	Calcium	20.3
AZ21820	Calcium	20.3
AZ21822	Calcium	20.3
AZ21831	Calcium	20.3
AZ21835	Calcium	20.3

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

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21830	656858	WMWGORAP_1241
AZ21834	656859	WMWGORAP_1241

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

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

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21811	657033	WMWGORAP_1241
AZ21812	657033	WMWGORAP_1241
AZ21813	657033	WMWGORAP_1241
AZ21814	657033	WMWGORAP_1241
AZ21815	657033	WMWGORAP_1241
AZ21816	657033	WMWGORAP_1241
AZ21817	657033	WMWGORAP_1241
AZ21818	657033	WMWGORAP_1241
AZ21819	657033	WMWGORAP_1241
AZ21820	657033	WMWGORAP_1241
AZ21821	657034	WMWGORAP_1241
AZ21822	657034	WMWGORAP_1241
AZ21823	657034	WMWGORAP_1241
AZ21824	657034	WMWGORAP_1241
AZ21825	657034	WMWGORAP_1241
AZ21826	657034	WMWGORAP_1241
AZ21827	657034	WMWGORAP_1241
AZ21828	657034	WMWGORAP_1241
AZ21829	657034	WMWGORAP_1241
AZ21831	657034	WMWGORAP_1241
AZ21832	657035	WMWGORAP_1241
AZ21833	657035	WMWGORAP_1241
AZ21835	657035	WMWGORAP_1241
AZ21836	657035	WMWGORAP_1241

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

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

Matrix Specific Quality Control Procedures:

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

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

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21830	657096	WMWGORAP_1241
AZ21834	657096	WMWGORAP_1241

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

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

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

Mercury

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21811	656788	WMWGORAP_1241
AZ21812	656788	WMWGORAP_1241
AZ21813	656788	WMWGORAP_1241
AZ21814	656788	WMWGORAP_1241
AZ21815	656788	WMWGORAP_1241
AZ21816	656788	WMWGORAP_1241
AZ21817	656788	WMWGORAP_1241
AZ21818	656788	WMWGORAP_1241
AZ21819	656788	WMWGORAP_1241
AZ21820	656788	WMWGORAP_1241
AZ21821	656789	WMWGORAP_1241
AZ21822	656789	WMWGORAP_1241
AZ21823	656789	WMWGORAP_1241
AZ21824	656789	WMWGORAP_1241
AZ21825	656789	WMWGORAP_1241
AZ21826	656789	WMWGORAP_1241
AZ21827	656789	WMWGORAP_1241
AZ21828	656789	WMWGORAP_1241
AZ21829	656789	WMWGORAP_1241
AZ21831	656789	WMWGORAP_1241
AZ21832	656790	WMWGORAP_1241
AZ21833	656790	WMWGORAP_1241
AZ21835	656790	WMWGORAP_1241
AZ21836	656790	WMWGORAP_1241

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

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

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

Case Narrative

Dissolved Mercury

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21830	656792	WMWGORAP_1241
AZ21834	656792	WMWGORAP_1241

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- Due to no filtered method blank (MB) and laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

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

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

Anions

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21811	657266, 657273, & 656700	WMWGORAP_1241
AZ21812	657266, 657273, & 656700	WMWGORAP_1241
AZ21813	657266, 657273, & 656700	WMWGORAP_1241
AZ21814	657266, 657273, & 656700	WMWGORAP_1241
AZ21815	657266, 657273, & 656700	WMWGORAP_1241
AZ21816	657266, 657273, & 656700	WMWGORAP_1241
AZ21817	657266, 657273, & 656700	WMWGORAP_1241
AZ21818	657266, 657273, & 656700	WMWGORAP_1241
AZ21819	657266, 657273, & 656700	WMWGORAP_1241
AZ21820	657266, 657273, & 656700	WMWGORAP_1241
AZ21821	657267, 657274, & 656701	WMWGORAP_1241
AZ21822	657267, 657274, & 656701	WMWGORAP_1241
AZ21823	657267, 657274, & 656701	WMWGORAP_1241
AZ21824	657267, 657274, & 656701	WMWGORAP_1241
AZ21825	657267, 657274, & 656701	WMWGORAP_1241
AZ21826	657267, 657274, & 656701	WMWGORAP_1241
AZ21827	657267, 657274, & 656701	WMWGORAP_1241
AZ21828	657267, 657274, & 656701	WMWGORAP_1241
AZ21829	657267, 657274, & 656701	WMWGORAP_1241
AZ21830	657267, 657274, & 656701	WMWGORAP_1241
AZ21831	657268, 657275, & 656702	WMWGORAP_1241
AZ21832	657268, 657275, & 656702	WMWGORAP_1241
AZ21833	657268, 657275, & 656702	WMWGORAP_1241
AZ21834	657268, 657275, & 656702	WMWGORAP_1241
AZ21835	657268, 657275, & 656702	WMWGORAP_1241
AZ21836	657268, 657275, & 656702	WMWGORAP_1241

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below 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.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
AZ21813	Sulfate	4
AZ21814	Sulfate & Chloride	20 & 2
AZ21815	Sulfate & Chloride	20 & 2
AZ21816	Sulfate	80
AZ21823	Sulfate	4
AZ21825	Sulfate	10
AZ21827	Sulfate & Chloride	25 & 2
AZ21829	Sulfate	10
AZ21830	Sulfate	20
AZ21835	Sulfate	10

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

TDS

Gorgas Ash Pond

WMWGORAP_1241

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>
AZ21811	656773	WMWGORAP_1241
AZ21812	656773	WMWGORAP_1241
AZ21813	656693	WMWGORAP_1241
AZ21814	656693	WMWGORAP_1241
AZ21815	656693	WMWGORAP_1241
AZ21816	656693	WMWGORAP_1241
AZ21817	656773	WMWGORAP_1241
AZ21818	656773	WMWGORAP_1241
AZ21819	656773	WMWGORAP_1241
AZ21820	656773	WMWGORAP_1241
AZ21821	656773	WMWGORAP_1241
AZ21822	656773	WMWGORAP_1241
AZ21823	656773	WMWGORAP_1241
AZ21824	656773	WMWGORAP_1241
AZ21825	656693	WMWGORAP_1241
AZ21826	656783	WMWGORAP_1241
AZ21827	656783	WMWGORAP_1241
AZ21828	656783	WMWGORAP_1241
AZ21829	656783	WMWGORAP_1241
AZ21830	656783	WMWGORAP_1241
AZ21831	656783	WMWGORAP_1241
AZ21832	656783	WMWGORAP_1241
AZ21833	656693	WMWGORAP_1241
AZ21834	656693	WMWGORAP_1241
AZ21835	656783	WMWGORAP_1241
AZ21836	656783	WMWGORAP_1241

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - AZ21812
 - AZ21821
 - AZ21832

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP
Collected: 9/25/19 11:42
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21811

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:11		1.015	0.0784	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 12:11		1.015	2.52	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 12:11		1.015	0.0619	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 10:31		1.015	0.0528	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:31		1.015	0.00338	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	443	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:28	10/2/19 09:28		1	8.93	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:12	10/2/19 14:12		1	0.172	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:12	9/26/19 14:12		1	10.2	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: SNP						
Conductivity	9/25/19 11:35	9/25/19 11:35			635.22	uS/cm			FA
pH	9/25/19 11:35	9/25/19 11:35			8.57	SU			FA
Temperature	9/25/19 11:35	9/25/19 11:35			21.58	C			FA
Turbidity	9/25/19 11:35	9/25/19 11:35			5.92	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/25/19 11:42

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: AZ21811

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/25/19 11:42

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: AZ21811

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	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:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank

Location Code: WMWGORAPFB
Collected: 9/25/19 11:35
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21812

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:14		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	10/1/19 16:40	10/2/19 12:14		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	10/1/19 16:40	10/2/19 12:14		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 09:29	10/2/19 09:29		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:13	10/2/19 14:13		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:14	9/26/19 14:14		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 9/25/19 11:35

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ21812

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	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:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 9/25/19 11:35

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ21812

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP
Collected: 9/23/19 13:31
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21813

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:17		1.015	1.15	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 14:43		20.3	56.1	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:17		1.015	0.264	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:36		1.015	0.0876	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 10:36		1.015	0.903	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:36		1.015	0.00758	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:36		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	296	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:30	10/2/19 09:30		1	8.72	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:14	10/2/19 14:14		1	0.132	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:27	9/26/19 14:27		4	47.9	mg/L	2.00	4	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/23/19 13:26	9/23/19 13:26			490.82	uS/cm			FA
pH	9/23/19 13:26	9/23/19 13:26			7.23	SU			FA
Temperature	9/23/19 13:26	9/23/19 13:26			21.22	C			FA
Turbidity	9/23/19 13:26	9/23/19 13:26			0.51	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 13:31
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: AZ21813

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/23/19 13:31

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: AZ21813

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP
Collected: 9/23/19 14:41
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21814

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:20		1.015	1.08	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 14:46		20.3	60.0	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:20		1.015	0.0105	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:39		1.015	0.0105	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 10:39		1.015	0.124	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:39		1.015	0.00412	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:39		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	381	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:42	10/2/19 09:42		2	23.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:15	10/2/19 14:15		1	0.142	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:28	9/26/19 14:28		20	176	mg/L	10.00	20	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/23/19 14:36	9/23/19 14:36			618.86	uS/cm			FA
pH	9/23/19 14:36	9/23/19 14:36			6.51	SU			FA
Temperature	9/23/19 14:36	9/23/19 14:36			21.36	C			FA
Turbidity	9/23/19 14:36	9/23/19 14:36			6.56	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 14:41
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: AZ21814

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/23/19 14:41

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: AZ21814

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP
Collected: 9/23/19 14:41
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21815

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:23		1.015	1.08	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 14:49		20.3	59.7	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:23		1.015	0.0117	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:42		1.015	0.0105	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 10:42		1.015	0.121	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:42		1.015	0.00448	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:42		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	378	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:43	10/2/19 09:43		2	23.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:16	10/2/19 14:16		1	0.135	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:29	9/26/19 14:29		20	174	mg/L	10.00	20	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/23/19 14:36	9/23/19 14:36			618.86	uS/cm			FA
pH	9/23/19 14:36	9/23/19 14:36			6.51	SU			FA
Temperature	9/23/19 14:36	9/23/19 14:36			21.36	C			FA
Turbidity	9/23/19 14:36	9/23/19 14:36			6.56	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 14:41
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: AZ21815

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec	Limit
			MB	Limit						Rec	Limit		
AZ21820	Arsenic, Total	mg/L	0.0000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/23/19 14:41

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: AZ21815

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP
Collected: 9/23/19 16:14
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21816

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:26		1.015	0.0641	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 14:52		20.3	80.6	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:26		1.015	0.0324	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:44		1.015	0.0369	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 10:44		1.015	0.0148	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:44		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	598	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:34	10/2/19 09:34		1	2.26	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:18	10/2/19 14:18		1	0.144	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:30	9/26/19 14:30		80	394	mg/L	40.00	80	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/23/19 16:09	9/23/19 16:09			790.10	uS/cm			FA
pH	9/23/19 16:09	9/23/19 16:09			5.76	SU			FA
Temperature	9/23/19 16:09	9/23/19 16:09			18.55	C			FA
Turbidity	9/23/19 16:09	9/23/19 16:09			1.31	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 16:14
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: AZ21816

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/23/19 16:14

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: AZ21816

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP
Collected: 9/24/19 11:50
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21817

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:29		1.015	0.0532	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 12:29		1.015	29.7	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 12:29		1.015	0.0809	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:47		1.015	0.00149	mg/L	0.001	0.005	J
* Barium, Total	9/26/19 15:18	9/27/19 10:47		1.015	0.208	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:47		1.015	0.00405	mg/L	0.002	0.01	J
* Cobalt, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:47		1.015	0.00906	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:47		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	365	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:35	10/2/19 09:35		1	3.69	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:19	10/2/19 14:19		1	0.245	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:20	9/26/19 14:20		1	11.8	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/24/19 11:47	9/24/19 11:47			602.84	uS/cm			FA
pH	9/24/19 11:47	9/24/19 11:47			7.65	SU			FA
Temperature	9/24/19 11:47	9/24/19 11:47			19.44	C			FA
Turbidity	9/24/19 11:47	9/24/19 11:47			1.35	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 11:50
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: AZ21817

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 11:50

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: AZ21817

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP
Collected: 9/24/19 14:00
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21818

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:31		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	10/1/19 16:40	10/2/19 12:31		1.015	34.3	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 12:31		1.015	0.0362	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 10:50		1.015	0.342	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:50		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 10:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	208	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:36	10/2/19 09:36		1	2.90	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:20	10/2/19 14:20		1	0.124	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:21	9/26/19 14:21		1	14.1	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/24/19 13:56	9/24/19 13:56			360.37	uS/cm			FA
pH	9/24/19 13:56	9/24/19 13:56			7.43	SU			FA
Temperature	9/24/19 13:56	9/24/19 13:56			21.20	C			FA
Turbidity	9/24/19 13:56	9/24/19 13:56			0.44	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 14:00

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: AZ21818

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 14:00

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: AZ21818

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	5
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP
Collected: 9/24/19 15:50
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21819

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:34		1.015	0.0375	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 14:57		20.3	48.4	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:34		1.015	0.0392	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:53		1.015	0.00289	mg/L	0.001	0.005	J
* Barium, Total	9/26/19 15:18	9/27/19 10:53		1.015	0.356	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:53		1.015	0.00562	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:53		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 11:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	302	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:38	10/2/19 09:38		1	5.83	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:22	10/2/19 14:22		1	0.307	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:22	9/26/19 14:22		1	13.8	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/24/19 15:46	9/24/19 15:46			508.01	uS/cm			FA
pH	9/24/19 15:46	9/24/19 15:46			7.80	SU			FA
Temperature	9/24/19 15:46	9/24/19 15:46			18.95	C			FA
Turbidity	9/24/19 15:46	9/24/19 15:46			0.73	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 15:50
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: AZ21819

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 15:50

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: AZ21819

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	20
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19 DUP

Location Code: WMWGORAP
Collected: 9/24/19 15:50
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21820

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:37		1.015	0.0366	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 15:00		20.3	48.6	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:37		1.015	0.0378	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 10:56		1.015	0.00280	mg/L	0.001	0.005	J
* Barium, Total	9/26/19 15:18	9/27/19 10:56		1.015	0.362	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 10:56		1.015	0.00540	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 10:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 11:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	307	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:37	10/2/19 09:37		1	6.03	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:21	10/2/19 14:21		1	0.314	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:23	9/26/19 14:23		1	14.1	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/24/19 15:46	9/24/19 15:46			508.01	uS/cm			FA
pH	9/24/19 15:46	9/24/19 15:46			7.80	SU			FA
Temperature	9/24/19 15:46	9/24/19 15:46			18.95	C			FA
Turbidity	9/24/19 15:46	9/24/19 15:46			0.73	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 15:50
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-19 DUP

Laboratory ID Number: AZ21820

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ21820	Arsenic, Total	mg/L	0.0000378	0.0001474	0.10	0.104	0.105	0.104	0.085 to 0.115	101	70 to 130	1.22	20
AZ21820	Calcium, Total	mg/L	0.000127	0.1518	5.00	53.6	53.9	5.13	4.25 to 5.75	99.9	70 to 130	0.493	20
AZ21820	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.55	20
AZ21820	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.0982	0.0994	0.103	0.085 to 0.115	98.2	70 to 130	1.29	20
AZ21820	Lithium, Total	mg/L	-0.0000737	0.0154	0.20	0.260	0.261	0.202	0.17 to 0.23	111	70 to 130	0.485	20
AZ21820	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.100	0.101	0.105	0.085 to 0.115	100	70 to 130	0.511	20
AZ21820	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.195	20
AZ21820	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.06	1.07	1.00	0.85 to 1.15	103	70 to 130	0.743	20
AZ21820	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.101	0.101	0.0947	0.085 to 0.115	95.8	70 to 130	0.171	20
AZ21820	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.36	20
AZ21820	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.105	0.106	0.109	0.085 to 0.115	105	70 to 130	0.252	20
AZ21820	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.101	0.100	0.102	0.085 to 0.115	101	70 to 130	0.288	20
AZ21820	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.0990	0.101	0.0941	0.085 to 0.115	99.0	70 to 130	1.92	20
AZ21820	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.455	0.457	0.101	0.085 to 0.115	93.1	70 to 130	0.420	20
AZ21820	Mercury, Total by CVAA	mg/L	0.0000401	0.0005	0.004	0.00420	0.00407	0.00403	0.0034 to 0.0046	105	70 to 130	2.97	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 15:50

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-19 DUP

Laboratory ID Number: AZ21820

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21820	Sulfate	mg/L	-0.401	0.50	20.0	32.7	14.0	19.4	18 to 22	93.0	80 to 120	0.712	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	5
AZ21819	Fluoride	mg/L	0.0298	0.05	2.50	2.84	0.312	2.61	2.25 to 2.75	101	80 to 120	1.62	20
AZ21819	Chloride	mg/L	0.0158	0.50	10.0	16.1	6.02	10.0	9 to 11	103	80 to 120	3.21	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:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank

Location Code: WMWGORAPFB
Collected: 9/24/19 16:50
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21821

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:52		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	10/1/19 16:40	10/2/19 12:52		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	10/1/19 16:40	10/2/19 12:52		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:11		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 10:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 09:56	10/2/19 09:56		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:34	10/2/19 14:34		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:53	9/26/19 14:53		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB
Sample Date: 9/24/19 16:50
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ21821

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	70 to 130	1.34	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	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:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 9/24/19 16:50

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond Field Blank

Laboratory ID Number: AZ21821

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP
Collected: 9/24/19 18:23
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21822

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:55		1.015	0.0821	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 15:15		20.3	46.5	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 12:55		1.015	0.0275	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 11:14		1.015	1.04	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 10:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	253	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 09:57	10/2/19 09:57		1	2.89	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:35	10/2/19 14:35		1	0.201	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:54	9/26/19 14:54		1	15.3	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/24/19 18:20	9/24/19 18:20			427.42	uS/cm			FA
pH	9/24/19 18:20	9/24/19 18:20			6.59	SU			FA
Temperature	9/24/19 18:20	9/24/19 18:20			19.49	C			FA
Turbidity	9/24/19 18:20	9/24/19 18:20			9.47	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 18:23
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: AZ21822

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec	Limit
			MB	Limit						Rec	Limit		
AZ21831	Barium, Total	mg/L	-0.0000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	70 to 130	1.34	20
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 18:23

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: AZ21822

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	5
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP
Collected: 9/25/19 09:27
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21823

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 12:58		1.015	0.153	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 12:58		1.015	0.581	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 12:58		1.015	0.0457	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 11:17		1.015	0.0650	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:17		1.015	0.00803	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:17		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 10:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	358	mg/L		25	
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 09:59	10/2/19 09:59		1	12.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:37	10/2/19 14:37		1	0.860	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:03	9/26/19 15:03		4	47.7	mg/L	2.00	4	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/25/19 09:22	9/25/19 09:22			589.15	uS/cm			FA
pH	9/25/19 09:22	9/25/19 09:22			9.31	SU			FA
Temperature	9/25/19 09:22	9/25/19 09:22			18.95	C			FA
Turbidity	9/25/19 09:22	9/25/19 09:22			1.19	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/25/19 09:27
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: AZ21823

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	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, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/25/19 09:27

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: AZ21823

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP
Collected: 9/25/19 13:32
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21824

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:01		1.015	0.0347	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 13:01		1.015	33.4	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:01		1.015	0.0611	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:19		1.015	0.00250	mg/L	0.0008	0.003	J
* Arsenic, Total	9/26/19 15:18	9/27/19 11:19		1.015	0.00129	mg/L	0.001	0.005	J
* Barium, Total	9/26/19 15:18	9/27/19 11:19		1.015	1.06	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:19		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:19		1.015	0.00202	mg/L	0.002	0.01	J
* Cobalt, Total	9/26/19 15:18	9/27/19 11:19		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:19		1.015	0.00942	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 10:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	183	mg/L		25	
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 10:00	10/2/19 10:00		1	3.84	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:38	10/2/19 14:38		1	0.185	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:56	9/26/19 14:56		1	1.61	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: DKG						
Conductivity	9/25/19 13:27	9/25/19 13:27			281.91	uS/cm			FA
pH	9/25/19 13:27	9/25/19 13:27			9.29	SU			FA
Temperature	9/25/19 13:27	9/25/19 13:27			23.36	C			FA
Turbidity	9/25/19 13:27	9/25/19 13:27			9.54	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/25/19 13:32
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: AZ21824

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	70 to 130	1.34	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/25/19 13:32

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: AZ21824

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21824	Solids, Dissolved	mg/L	0.0000	25			184	53.0	40 to 60			0.272	5
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP
Collected: 9/23/19 14:21
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21825

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:04		1.015	0.116	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 13:04		1.015	5.43	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:04		1.015	0.0583	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:22		1.015	0.00631	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 11:22		1.015	0.135	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:22		1.015	0.0110	mg/L	0.002	0.01	
* Selenium, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 11:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	684	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:01	10/2/19 10:01		1	16.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:39	10/2/19 14:39		1	0.351	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:05	9/26/19 15:05		10	124	mg/L	5.00	10	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	9/23/19 14:19	9/23/19 14:19			1154.99	uS/cm			FA
pH	9/23/19 14:19	9/23/19 14:19			8.37	SU			FA
Temperature	9/23/19 14:19	9/23/19 14:19			21.40	C			FA
Turbidity	9/23/19 14:19	9/23/19 14:19			1.77	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 14:21
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: AZ21825

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	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, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/23/19 14:21

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: AZ21825

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP
Collected: 9/24/19 08:00
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21826

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:07		1.015	0.0607	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 13:07		1.015	3.26	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:07		1.015	0.469	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:25		1.015	0.0110	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 11:25		1.015	0.0913	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:25		1.015	0.0597	mg/L	0.002	0.01	
* Selenium, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 11:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	536	mg/L		75.8	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:02	10/2/19 10:02		1	5.96	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:40	10/2/19 14:40		1	0.628	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 14:59	9/26/19 14:59		1	12.4	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	9/24/19 07:55	9/24/19 07:55			1529.84	uS/cm			FA
pH	9/24/19 07:55	9/24/19 07:55			11.70	SU			FA
Temperature	9/24/19 07:55	9/24/19 07:55			19.54	C			FA
Turbidity	9/24/19 07:55	9/24/19 07:55			0.7	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 08:00
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: AZ21826

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	70 to 130	1.34	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 08:00

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: AZ21826

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP
Collected: 9/24/19 10:28
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21827

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:10		1.015	0.0843	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 13:10		1.015	2.47	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:10		1.015	0.276	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 11:27		1.015	0.114	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:27		1.015	0.0613	mg/L	0.002	0.01	
* Selenium, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:27		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 11:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	630	mg/L		50	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:11	10/2/19 10:11		2	36.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:41	10/2/19 14:41		1	0.209	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:06	9/26/19 15:06		25	224	mg/L	12.50	25	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	9/24/19 10:24	9/24/19 10:24			1324.40	uS/cm			FA
pH	9/24/19 10:24	9/24/19 10:24			11.24	SU			FA
Temperature	9/24/19 10:24	9/24/19 10:24			20.09	C			FA
Turbidity	9/24/19 10:24	9/24/19 10:24			0.38	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 10:28
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: AZ21827

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	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, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 10:28

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: AZ21827

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP
Collected: 9/24/19 13:18
Customer ID:
Submittal Date: 9/26/19 09:28

Laboratory ID Number: AZ21828

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:13		1.015	0.0305	mg/L	0.03	0.1	J
* Calcium, Total	10/1/19 16:40	10/2/19 13:13		1.015	32.8	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:13		1.015	0.0509	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:30		1.015	0.00155	mg/L	0.001	0.005	J
* Barium, Total	9/26/19 15:18	9/27/19 11:30		1.015	0.712	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:30		1.015	0.00424	mg/L	0.002	0.01	J
* Selenium, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:30		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 11:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	389	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:05	10/2/19 10:05		1	3.11	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:43	10/2/19 14:43		1	0.183	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:01	9/26/19 15:01		1	32.6	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	9/24/19 13:14	9/24/19 13:14			625.07	uS/cm			FA
pH	9/24/19 13:14	9/24/19 13:14			7.11	SU			FA
Temperature	9/24/19 13:14	9/24/19 13:14			20.61	C			FA
Turbidity	9/24/19 13:14	9/24/19 13:14			2.52	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 13:18
Customer ID:
Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: AZ21828

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	70 to 130	1.34	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 13:18

Customer ID:

Delivery Date: 9/26/19 09:28

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: AZ21828

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP
Collected: 9/24/19 17:45
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21829

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:15		1.015	1.60	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 13:15		1.015	13.4	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:15		1.015	0.156	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:33		1.015	0.233	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 11:33		1.015	0.0834	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:33		1.015	0.178	mg/L	0.002	0.01	
* Selenium, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 11:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	344	mg/L		25	
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 10:07	10/2/19 10:07		1	5.76	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:45	10/2/19 14:45		1	0.106	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:07	9/26/19 15:07		10	145	mg/L	5.00	10	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	9/24/19 17:41	9/24/19 17:41			528.85	uS/cm			FA
pH	9/24/19 17:41	9/24/19 17:41			7.38	SU			FA
Temperature	9/24/19 17:41	9/24/19 17:41			18.23	C			FA
Turbidity	9/24/19 17:41	9/24/19 17:41			24.4	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 17:45
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: AZ21829

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	70 to 130	1.34	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20

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Laboratory certification ID: E571114
 Issued By: State of Florida, Department of Health
 Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 17:45

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: AZ21829

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7 DISS

Location Code: WMWGORAP
Collected: 9/24/19 17:45
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21830

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA							
* Boron, Dissolved	10/2/19 08:00	10/2/19 12:46		1.015	1.54	mg/L	0.03	0.1	
* Calcium, Dissolved	10/2/19 08:00	10/2/19 12:46		1.015	13.6	mg/L	0.1	0.5	
* Lithium, Dissolved	10/2/19 08:00	10/2/19 12:46		1.015	0.156	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	0.206	mg/L	0.001	0.005	
* Barium, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	0.0610	mg/L	0.002	0.01	
* Beryllium, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	0.173	mg/L	0.002	0.01	
* Selenium, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	0.0309	mg/L	0.002	0.01	
* Thallium, Dissolved	9/27/19 11:30	9/27/19 14:07		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: GAS							
* Mercury, Dissolved by CVAA	9/30/19 12:00	10/1/19 12:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	337	mg/L		25	
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	10/2/19 10:06	10/2/19 10:06		1	5.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/2/19 14:44	10/2/19 14:44		1	0.108	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	9/26/19 15:23	9/26/19 15:23		20	147	mg/L	10.00	20	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 10/25/19

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 17:45
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-7 DISS

Laboratory ID Number: AZ21830

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21830	Thallium, Dissolved	mg/L	-0.0000676	0.0001474	0.10	0.101	0.100	0.105	0.085 to 0.115	101	70 to 130	1.08	20
AZ21830	Cadmium, Dissolved	mg/L	0.00000581	0.0001474	0.10	0.103	0.101	0.104	0.085 to 0.115	103	70 to 130	1.44	20
AZ21830	Cobalt, Dissolved	mg/L	-0.0000754	0.0001474	0.10	0.107	0.107	0.108	0.085 to 0.115	107	70 to 130	0.529	20
AZ21830	Selenium, Dissolved	mg/L	0.0000829	0.00066	0.10	0.101	0.101	0.103	0.085 to 0.115	70.1	70 to 130	0.537	20
AZ21830	Arsenic, Dissolved	mg/L	0.00000644	0.0001474	0.10	0.304	0.305	0.100	0.085 to 0.115	98.3	70 to 130	0.144	20
AZ21830	Lead, Dissolved	mg/L	-0.00000338	0.0001474	0.10	0.0999	0.0989	0.103	0.085 to 0.115	99.9	70 to 130	1.03	20
AZ21830	Boron, Dissolved	mg/L	0.00176	0.0650254	1.00	2.52	2.52	0.983	0.85 to 1.15	98.2	70 to 130	0.289	20
AZ21830	Calcium, Dissolved	mg/L	0.000773	0.1518	5.00	18.6	18.4	5.08	4.25 to 5.75	100	70 to 130	0.962	20
AZ21830	Chromium, Dissolved	mg/L	-0.0000499	0.00044	0.10	0.0987	0.0987	0.101	0.085 to 0.115	98.7	70 to 130	0.0323	20
AZ21834	Mercury, Dissolved by	mg/L	0.0000250	0.0005	0.004	0.00423	0.00422	0.00405	0.0034 to 0.0046	106	70 to 130	0.173	20
AZ21830	Barium, Dissolved	mg/L	0.0000234	0.0002	0.10	0.163	0.162	0.105	0.085 to 0.115	102	70 to 130	0.426	20
AZ21830	Beryllium, Dissolved	mg/L	0.0000114	0.00088	0.10	0.0972	0.0991	0.0949	0.085 to 0.115	97.2	70 to 130	1.93	20
AZ21830	Lithium, Dissolved	mg/L	-0.0000254	0.0154	0.20	0.381	0.380	0.200	0.17 to 0.23	113	70 to 130	0.370	20
AZ21830	Molybdenum, Dissolved	mg/L	0.0000130	0.0001474	0.10	0.271	0.267	0.0983	0.085 to 0.115	98.1	70 to 130	1.56	20
AZ21830	Antimony, Dissolved	mg/L	0.000122	0.00066	0.10	0.0927	0.0929	0.0972	0.085 to 0.115	92.7	70 to 130	0.243	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: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 10/25/19

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 17:45

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-7 DISS

Laboratory ID Number: AZ21830

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21829	Fluoride	mg/L	0.0301	0.05	2.50	2.69	0.107	2.60	2.25 to 2.75	103	80 to 120	0.939	20
AZ21830	Sulfate	mg/L	-0.230	0.50	400	513	147	19.1	18 to 22	91.5	80 to 120	0.00	20
AZ21829	Chloride	mg/L	0.00811	0.50	10.0	16.2	5.85	10.0	9 to 11	104	80 to 120	1.55	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 10/25/19

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP
Collected: 9/25/19 10:02
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:18		1.015	0.122	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 15:36		20.3	48.1	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 13:18		1.015	0.0280	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:35		1.015	0.0135	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 11:35		1.015	0.202	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:35		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/19 09:15	10/3/19 11:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	253	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:22	10/2/19 10:22		1	6.68	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:58	10/2/19 14:58		1	0.168	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:54	9/26/19 15:54		1	25.5	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: AWG						
Conductivity	9/25/19 09:58	9/25/19 09:58			394.56	uS/cm			FA
pH	9/25/19 09:58	9/25/19 09:58			7.38	SU			FA
Temperature	9/25/19 09:58	9/25/19 09:58			22.10	C			FA
Turbidity	9/25/19 09:58	9/25/19 09:58			1.17	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/25/19 10:02
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: AZ21831

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
AZ21831	Beryllium, Total	mg/L	0.0000139	0.00088	0.10	0.0980	0.100	0.102	0.085 to 0.115	98.0	70 to 130	2.14	20
AZ21831	Cadmium, Total	mg/L	-0.00000011	0.0001474	0.10	0.101	0.103	0.102	0.085 to 0.115	101	70 to 130	1.81	20
AZ21831	Arsenic, Total	mg/L	0.00000378	0.0001474	0.10	0.116	0.115	0.104	0.085 to 0.115	102	70 to 130	0.569	20
AZ21831	Antimony, Total	mg/L	0.0000939	0.00066	0.10	0.101	0.102	0.0941	0.085 to 0.115	101	70 to 130	1.02	20
AZ21831	Barium, Total	mg/L	-0.00000553	0.0002	0.10	0.309	0.299	0.101	0.085 to 0.115	107	70 to 130	3.11	20
AZ21831	Calcium, Total	mg/L	0.000127	0.1518	5.00	54.0	54.0	5.13	4.25 to 5.75	118	70 to 130	0.0439	20
AZ21831	Chromium, Total	mg/L	0.0000230	0.00044	0.10	0.100	0.0996	0.103	0.085 to 0.115	100	70 to 130	0.588	20
AZ21831	Lead, Total	mg/L	-0.00000318	0.0001474	0.10	0.103	0.101	0.102	0.085 to 0.115	103	70 to 130	2.56	20
AZ21831	Selenium, Total	mg/L	0.0000196	0.00066	0.10	0.102	0.101	0.105	0.085 to 0.115	102	70 to 130	0.620	20
AZ21831	Boron, Total	mg/L	0.00221	0.0650254	1.00	1.15	1.16	1.00	0.85 to 1.15	103	70 to 130	1.06	20
AZ21831	Lithium, Total	mg/L	-0.00000737	0.0154	0.20	0.247	0.248	0.202	0.17 to 0.23	109	70 to 130	0.457	20
AZ21831	Molybdenum, Total	mg/L	-0.00000160	0.0001474	0.10	0.0993	0.0991	0.0947	0.085 to 0.115	99.3	70 to 130	0.155	20
AZ21831	Cobalt, Total	mg/L	-0.0000750	0.0001474	0.10	0.106	0.106	0.109	0.085 to 0.115	106	70 to 130	0.185	20
AZ21831	Mercury, Total by CVAA	mg/L	0.0000492	0.0005	0.004	0.00392	0.00380	0.00413	0.0034 to 0.0046	98.0	70 to 130	3.23	20
AZ21831	Thallium, Total	mg/L	-0.0000690	0.0001474	0.10	0.105	0.104	0.103	0.085 to 0.115	105	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, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/25/19 10:02

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: AZ21831

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21836	Sulfate	mg/L	-0.439	0.50	20.0	24.9	6.83	19.1	18 to 22	91.4	80 to 120	3.27	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5
AZ21835	Chloride	mg/L	0.0333	0.50	10.0	21.7	12.3	10.0	9 to 11	94.0	80 to 120	0.00	20
AZ21835	Fluoride	mg/L	0.032	0.05	2.50	3.16	0.574	2.59	2.25 to 2.75	103	80 to 120	0.694	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank

Location Code: WMWGORAPEB
Collected: 9/25/19 11:20
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21832

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:39		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	10/1/19 16:40	10/2/19 13:39		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	10/1/19 16:40	10/2/19 13:39		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 11:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 10:24	10/2/19 10:24		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 14:59	10/2/19 14:59		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:55	9/26/19 15:55		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 9/25/19 11:20

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ21832

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21836	Selenium, Total	mg/L	0.00000033	0.00066	0.10	0.0994	0.0982	0.103	0.085 to 0.115	99.4	70 to 130	1.21	20
AZ21836	Beryllium, Total	mg/L	0.0000160	0.00088	0.10	0.0993	0.100	0.0985	0.085 to 0.115	99.3	70 to 130	0.778	20
AZ21836	Chromium, Total	mg/L	0.00000001	0.00044	0.10	0.104	0.102	0.102	0.085 to 0.115	104	70 to 130	1.89	20
AZ21836	Antimony, Total	mg/L	0.000102	0.00066	0.10	0.100	0.101	0.0984	0.085 to 0.115	100	70 to 130	0.542	20
AZ21836	Thallium, Total	mg/L	-0.0000665	0.0001474	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.23	20
AZ21836	Arsenic, Total	mg/L	0.00000389	0.0001474	0.10	0.104	0.102	0.101	0.085 to 0.115	104	70 to 130	1.87	20
AZ21836	Lithium, Total	mg/L	0.0000854	0.0154	0.20	0.216	0.218	0.203	0.17 to 0.23	108	70 to 130	0.760	20
AZ21836	Barium, Total	mg/L	-0.0000102	0.0002	0.10	0.144	0.145	0.104	0.085 to 0.115	101	70 to 130	1.00	20
AZ21836	Cadmium, Total	mg/L	-0.00000296	0.0001474	0.10	0.107	0.104	0.105	0.085 to 0.115	107	70 to 130	2.58	20
AZ21836	Lead, Total	mg/L	-0.00000074	0.0001474	0.10	0.104	0.101	0.101	0.085 to 0.115	104	70 to 130	3.06	20
AZ21836	Calcium, Total	mg/L	0.00144	0.1518	5.00	12.3	12.5	5.24	4.25 to 5.75	102	70 to 130	1.11	20
AZ21836	Mercury, Total by CVAA	mg/L	0.0000267	0.0005	0.004	0.00412	0.00472	0.00405	0.0034 to 0.0046	103	70 to 130	13.5	20
AZ21836	Boron, Total	mg/L	0.00287	0.0650254	1.00	1.04	1.05	1.02	0.85 to 1.15	104	70 to 130	0.650	20
AZ21836	Cobalt, Total	mg/L	-0.0000739	0.0001474	0.10	0.112	0.110	0.110	0.085 to 0.115	110	70 to 130	2.10	20
AZ21836	Molybdenum, Total	mg/L	0.00000643	0.0001474	0.10	0.0975	0.0961	0.0996	0.085 to 0.115	97.5	70 to 130	1.47	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 9/25/19 11:20

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond Equipment Blank

Laboratory ID Number: AZ21832

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21836	Sulfate	mg/L	-0.439	0.50	20.0	24.9	6.83	19.1	18 to 22	91.4	80 to 120	3.27	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5
AZ21835	Chloride	mg/L	0.0333	0.50	10.0	21.7	12.3	10.0	9 to 11	94.0	80 to 120	0.00	20
AZ21835	Fluoride	mg/L	0.032	0.05	2.50	3.16	0.574	2.59	2.25 to 2.75	103	80 to 120	0.694	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP
Collected: 9/23/19 17:00
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:42		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	10/1/19 16:40	10/2/19 13:42		1.015	29.6	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:42		1.015	0.0945	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 11:59		1.015	0.922	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 11:59		1.015	0.00295	mg/L	0.002	0.01	J
* Cobalt, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 11:59		1.015	0.00109	mg/L	0.001	0.005	J
* Molybdenum, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 11:59		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 11:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	278	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:25	10/2/19 10:25		1	2.35	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 15:00	10/2/19 15:00		1	0.146	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 16:04	9/26/19 16:04		1	16.9	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	9/23/19 16:56	9/23/19 16:56			468.15	uS/cm			FA
pH	9/23/19 16:56	9/23/19 16:56			7.25	SU			FA
Temperature	9/23/19 16:56	9/23/19 16:56			22.21	C			FA
Turbidity	9/23/19 16:56	9/23/19 16:56			45	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 17:00
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: AZ21833

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21836	Selenium, Total	mg/L	0.00000033	0.00066	0.10	0.0994	0.0982	0.103	0.085 to 0.115	99.4	70 to 130	1.21	20
AZ21836	Beryllium, Total	mg/L	0.0000160	0.00088	0.10	0.0993	0.100	0.0985	0.085 to 0.115	99.3	70 to 130	0.778	20
AZ21836	Chromium, Total	mg/L	0.00000001	0.00044	0.10	0.104	0.102	0.102	0.085 to 0.115	104	70 to 130	1.89	20
AZ21836	Arsenic, Total	mg/L	0.00000389	0.0001474	0.10	0.104	0.102	0.101	0.085 to 0.115	104	70 to 130	1.87	20
AZ21836	Lithium, Total	mg/L	0.0000854	0.0154	0.20	0.216	0.218	0.203	0.17 to 0.23	108	70 to 130	0.760	20
AZ21836	Barium, Total	mg/L	-0.0000102	0.0002	0.10	0.144	0.145	0.104	0.085 to 0.115	101	70 to 130	1.00	20
AZ21836	Cadmium, Total	mg/L	-0.00000296	0.0001474	0.10	0.107	0.104	0.105	0.085 to 0.115	107	70 to 130	2.58	20
AZ21836	Lead, Total	mg/L	-0.00000074	0.0001474	0.10	0.104	0.101	0.101	0.085 to 0.115	104	70 to 130	3.06	20
AZ21836	Calcium, Total	mg/L	0.00144	0.1518	5.00	12.3	12.5	5.24	4.25 to 5.75	102	70 to 130	1.11	20
AZ21836	Mercury, Total by CVAA	mg/L	0.0000267	0.0005	0.004	0.00412	0.00472	0.00405	0.0034 to 0.0046	103	70 to 130	13.5	20
AZ21836	Antimony, Total	mg/L	0.000102	0.00066	0.10	0.100	0.101	0.0984	0.085 to 0.115	100	70 to 130	0.542	20
AZ21836	Thallium, Total	mg/L	-0.0000665	0.0001474	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.23	20
AZ21836	Boron, Total	mg/L	0.00287	0.0650254	1.00	1.04	1.05	1.02	0.85 to 1.15	104	70 to 130	0.650	20
AZ21836	Cobalt, Total	mg/L	-0.0000739	0.0001474	0.10	0.112	0.110	0.110	0.085 to 0.115	110	70 to 130	2.10	20
AZ21836	Molybdenum, Total	mg/L	0.00000643	0.0001474	0.10	0.0975	0.0961	0.0996	0.085 to 0.115	97.5	70 to 130	1.47	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/23/19 17:00

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: AZ21833

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21836	Sulfate	mg/L	-0.439	0.50	20.0	24.9	6.83	19.1	18 to 22	91.4	80 to 120	3.27	20
AZ21835	Chloride	mg/L	0.0333	0.50	10.0	21.7	12.3	10.0	9 to 11	94.0	80 to 120	0.00	20
AZ21835	Fluoride	mg/L	0.032	0.05	2.50	3.16	0.574	2.59	2.25 to 2.75	103	80 to 120	0.694	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H DISS

Location Code: WMWGORAP
Collected: 9/23/19 17:00
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21834

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA							
* Boron, Dissolved	10/2/19 08:00	10/2/19 13:12		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Dissolved	10/2/19 08:00	10/2/19 13:12		1.015	28.4	mg/L	0.1	0.5	
* Lithium, Dissolved	10/2/19 08:00	10/2/19 13:12		1.015	0.0933	mg/L	0.01	0.02	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	0.895	mg/L	0.002	0.01	
* Beryllium, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	0.00208	mg/L	0.002	0.01	J
* Thallium, Dissolved	9/27/19 11:30	9/27/19 14:18		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1		Analyst: GAS							
* Mercury, Dissolved by CVAA	9/30/19 12:00	10/1/19 12:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	9/26/19 15:13	9/30/19 10:10		1	273	mg/L		25	
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	10/2/19 10:26	10/2/19 10:26		1	2.57	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/2/19 15:02	10/2/19 15:02		1	0.148	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E		Analyst: JCC							
* Sulfate	9/26/19 16:05	9/26/19 16:05		1	7.24	mg/L	0.50	1	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 10/25/19

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 17:00
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-26H DISS

Laboratory ID Number: AZ21834

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
AZ21830	Selenium, Dissolved	mg/L	0.0000829	0.00066	0.10	0.101	0.101	0.103	0.085 to 0.115	70.1	70 to 130	0.537	20
AZ21830	Thallium, Dissolved	mg/L	-0.0000676	0.0001474	0.10	0.101	0.100	0.105	0.085 to 0.115	101	70 to 130	1.08	20
AZ21830	Cobalt, Dissolved	mg/L	-0.0000754	0.0001474	0.10	0.107	0.107	0.108	0.085 to 0.115	107	70 to 130	0.529	20
AZ21830	Cadmium, Dissolved	mg/L	0.00000581	0.0001474	0.10	0.103	0.101	0.104	0.085 to 0.115	103	70 to 130	1.44	20
AZ21830	Barium, Dissolved	mg/L	0.0000234	0.0002	0.10	0.163	0.162	0.105	0.085 to 0.115	102	70 to 130	0.426	20
AZ21830	Beryllium, Dissolved	mg/L	0.0000114	0.00088	0.10	0.0972	0.0991	0.0949	0.085 to 0.115	97.2	70 to 130	1.93	20
AZ21834	Calcium, Dissolved	mg/L	0.00156	0.1518	5.00	33.4	33.5	5.17	4.25 to 5.75	98.7	70 to 130	0.307	20
AZ21830	Arsenic, Dissolved	mg/L	0.00000644	0.0001474	0.10	0.304	0.305	0.100	0.085 to 0.115	98.3	70 to 130	0.144	20
AZ21830	Lead, Dissolved	mg/L	-0.00000338	0.0001474	0.10	0.0999	0.0989	0.103	0.085 to 0.115	99.9	70 to 130	1.03	20
AZ21834	Boron, Dissolved	mg/L	0.00194	0.0650254	1.00	1.00	1.01	0.979	0.85 to 1.15	100	70 to 130	0.345	20
AZ21830	Chromium, Dissolved	mg/L	-0.0000499	0.00044	0.10	0.0987	0.0987	0.101	0.085 to 0.115	98.7	70 to 130	0.0323	20
AZ21834	Mercury, Dissolved by	mg/L	0.0000250	0.0005	0.004	0.00423	0.00422	0.00405	0.0034 to 0.0046	106	70 to 130	0.173	20
AZ21834	Lithium, Dissolved	mg/L	-0.000139	0.0154	0.20	0.309	0.308	0.203	0.17 to 0.23	108	70 to 130	0.196	20
AZ21830	Molybdenum, Dissolved	mg/L	0.0000130	0.0001474	0.10	0.271	0.267	0.0983	0.085 to 0.115	98.1	70 to 130	1.56	20
AZ21830	Antimony, Dissolved	mg/L	0.000122	0.00066	0.10	0.0927	0.0929	0.0972	0.085 to 0.115	92.7	70 to 130	0.243	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 10/25/19

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/23/19 17:00
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-26H DISS

Laboratory ID Number: AZ21834

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21834	Solids, Dissolved	mg/L	0.0000	25			281	50.0	40 to 60			1.44	5
AZ21836	Sulfate	mg/L	-0.439	0.50	20.0	24.9	6.83	19.1	18 to 22	91.4	80 to 120	3.27	20
AZ21835	Chloride	mg/L	0.0333	0.50	10.0	21.7	12.3	10.0	9 to 11	94.0	80 to 120	0.00	20
AZ21835	Fluoride	mg/L	0.032	0.05	2.50	3.16	0.574	2.59	2.25 to 2.75	103	80 to 120	0.694	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: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 10/25/19

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18

Location Code: WMWGORAP
Collected: 9/24/19 11:45
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21835

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:45		1.015	0.883	mg/L	0.03	0.1	
* Calcium, Total	10/1/19 16:40	10/2/19 15:53		20.3	57.4	mg/L	2.03	10.15	
* Lithium, Total	10/1/19 16:40	10/2/19 13:45		1.015	0.114	mg/L	0.01	0.02	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 12:02		1.015	0.00854	mg/L	0.001	0.005	
* Barium, Total	9/26/19 15:18	9/27/19 12:02		1.015	0.0896	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 12:02		1.015	0.0504	mg/L	0.002	0.01	
* Selenium, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 12:02		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 12:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	372	mg/L		25	
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	10/2/19 10:28	10/2/19 10:28		1	12.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 15:04	10/2/19 15:04		1	0.578	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 15:59	9/26/19 15:59		10	119	mg/L	5.00	10	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	9/24/19 11:42	9/24/19 11:42			570.59	uS/cm			FA
pH	9/24/19 11:42	9/24/19 11:42			7.49	SU			FA
Temperature	9/24/19 11:42	9/24/19 11:42			17.51	C			FA
Turbidity	9/24/19 11:42	9/24/19 11:42			9.64	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 11:45
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-18

Laboratory ID Number: AZ21835

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21836	Selenium, Total	mg/L	0.00000033	0.00066	0.10	0.0994	0.0982	0.103	0.085 to 0.115	99.4	70 to 130	1.21	20
AZ21836	Beryllium, Total	mg/L	0.0000160	0.00088	0.10	0.0993	0.100	0.0985	0.085 to 0.115	99.3	70 to 130	0.778	20
AZ21836	Chromium, Total	mg/L	0.00000001	0.00044	0.10	0.104	0.102	0.102	0.085 to 0.115	104	70 to 130	1.89	20
AZ21836	Antimony, Total	mg/L	0.000102	0.00066	0.10	0.100	0.101	0.0984	0.085 to 0.115	100	70 to 130	0.542	20
AZ21836	Thallium, Total	mg/L	-0.0000665	0.0001474	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.23	20
AZ21836	Boron, Total	mg/L	0.00287	0.0650254	1.00	1.04	1.05	1.02	0.85 to 1.15	104	70 to 130	0.650	20
AZ21836	Cobalt, Total	mg/L	-0.0000739	0.0001474	0.10	0.112	0.110	0.110	0.085 to 0.115	110	70 to 130	2.10	20
AZ21836	Molybdenum, Total	mg/L	0.00000643	0.0001474	0.10	0.0975	0.0961	0.0996	0.085 to 0.115	97.5	70 to 130	1.47	20
AZ21836	Calcium, Total	mg/L	0.00144	0.1518	5.00	12.3	12.5	5.24	4.25 to 5.75	102	70 to 130	1.11	20
AZ21836	Mercury, Total by CVAA	mg/L	0.0000267	0.0005	0.004	0.00412	0.00472	0.00405	0.0034 to 0.0046	103	70 to 130	13.5	20
AZ21836	Arsenic, Total	mg/L	0.00000389	0.0001474	0.10	0.104	0.102	0.101	0.085 to 0.115	104	70 to 130	1.87	20
AZ21836	Lithium, Total	mg/L	0.0000854	0.0154	0.20	0.216	0.218	0.203	0.17 to 0.23	108	70 to 130	0.760	20
AZ21836	Barium, Total	mg/L	-0.0000102	0.0002	0.10	0.144	0.145	0.104	0.085 to 0.115	101	70 to 130	1.00	20
AZ21836	Cadmium, Total	mg/L	-0.00000296	0.0001474	0.10	0.107	0.104	0.105	0.085 to 0.115	107	70 to 130	2.58	20
AZ21836	Lead, Total	mg/L	-0.00000074	0.0001474	0.10	0.104	0.101	0.101	0.085 to 0.115	104	70 to 130	3.06	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:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 11:45

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-18

Laboratory ID Number: AZ21835

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21836	Sulfate	mg/L	-0.439	0.50	20.0	24.9	6.83	19.1	18 to 22	91.4	80 to 120	3.27	20
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5
AZ21835	Chloride	mg/L	0.0333	0.50	10.0	21.7	12.3	10.0	9 to 11	94.0	80 to 120	0.00	20
AZ21835	Fluoride	mg/L	0.032	0.05	2.50	3.16	0.574	2.59	2.25 to 2.75	103	80 to 120	0.694	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:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP
Collected: 9/24/19 18:02
Customer ID:
Submittal Date: 9/26/19 09:29

Laboratory ID Number: AZ21836

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	10/1/19 16:40	10/2/19 13:48		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	10/1/19 16:40	10/2/19 13:48		1.015	7.24	mg/L	0.1	0.5	
* Lithium, Total	10/1/19 16:40	10/2/19 13:48		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/26/19 15:18	9/27/19 12:04		1.015	0.0434	mg/L	0.002	0.01	
* Beryllium, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/26/19 15:18	9/27/19 12:04		1.015	0.00234	mg/L	0.002	0.005	J
* Lead, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/26/19 15:18	9/27/19 12:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1			Analyst: GAS						
* Mercury, Total by CVAA	9/30/19 12:00	10/1/19 12:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	9/27/19 15:00	9/30/19 15:50		1	109	mg/L		25	
Analytical Method: SM4500Cl E			Analyst: JCC						
* Chloride	10/2/19 10:27	10/2/19 10:27		1	3.21	mg/L	0.50	1	
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	10/2/19 15:03	10/2/19 15:03		1	0.128	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E			Analyst: JCC						
* Sulfate	9/26/19 16:06	9/26/19 16:06		1	6.61	mg/L	0.50	1	
Analytical Method: Field Measurements			Analyst: TJD						
Conductivity	9/24/19 17:58	9/24/19 17:58			125.57	uS/cm			FA
pH	9/24/19 17:58	9/24/19 17:58			5.27	SU			FA
Temperature	9/24/19 17:58	9/24/19 17:58			19.60	C			FA
Turbidity	9/24/19 17:58	9/24/19 17:58			2.89	NTU			FA

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

Comments:

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 9/24/19 18:02
Customer ID:
Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: AZ21836

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
AZ21836	Selenium, Total	mg/L	0.00000033	0.00066	0.10	0.0994	0.0982	0.103	0.085 to 0.115	99.4	70 to 130	1.21	20
AZ21836	Beryllium, Total	mg/L	0.0000160	0.00088	0.10	0.0993	0.100	0.0985	0.085 to 0.115	99.3	70 to 130	0.778	20
AZ21836	Chromium, Total	mg/L	0.00000001	0.00044	0.10	0.104	0.102	0.102	0.085 to 0.115	104	70 to 130	1.89	20
AZ21836	Arsenic, Total	mg/L	0.00000389	0.0001474	0.10	0.104	0.102	0.101	0.085 to 0.115	104	70 to 130	1.87	20
AZ21836	Lithium, Total	mg/L	0.0000854	0.0154	0.20	0.216	0.218	0.203	0.17 to 0.23	108	70 to 130	0.760	20
AZ21836	Barium, Total	mg/L	-0.0000102	0.0002	0.10	0.144	0.145	0.104	0.085 to 0.115	101	70 to 130	1.00	20
AZ21836	Cadmium, Total	mg/L	-0.00000296	0.0001474	0.10	0.107	0.104	0.105	0.085 to 0.115	107	70 to 130	2.58	20
AZ21836	Lead, Total	mg/L	-0.00000074	0.0001474	0.10	0.104	0.101	0.101	0.085 to 0.115	104	70 to 130	3.06	20
AZ21836	Antimony, Total	mg/L	0.000102	0.00066	0.10	0.100	0.101	0.0984	0.085 to 0.115	100	70 to 130	0.542	20
AZ21836	Thallium, Total	mg/L	-0.0000665	0.0001474	0.10	0.105	0.103	0.104	0.085 to 0.115	105	70 to 130	2.23	20
AZ21836	Calcium, Total	mg/L	0.00144	0.1518	5.00	12.3	12.5	5.24	4.25 to 5.75	102	70 to 130	1.11	20
AZ21836	Mercury, Total by CVAA	mg/L	0.0000267	0.0005	0.004	0.00412	0.00472	0.00405	0.0034 to 0.0046	103	70 to 130	13.5	20
AZ21836	Boron, Total	mg/L	0.00287	0.0650254	1.00	1.04	1.05	1.02	0.85 to 1.15	104	70 to 130	0.650	20
AZ21836	Cobalt, Total	mg/L	-0.0000739	0.0001474	0.10	0.112	0.110	0.110	0.085 to 0.115	110	70 to 130	2.10	20
AZ21836	Molybdenum, Total	mg/L	0.00000643	0.0001474	0.10	0.0975	0.0961	0.0996	0.085 to 0.115	97.5	70 to 130	1.47	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2018

Comments:

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 9/24/19 18:02

Customer ID:

Delivery Date: 9/26/19 09:29

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: AZ21836

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
AZ21835	Solids, Dissolved	mg/L	0.0000	25			374	53.0	40 to 60			0.268	5
AZ21836	Sulfate	mg/L	-0.439	0.50	20.0	24.9	6.83	19.1	18 to 22	91.4	80 to 120	3.27	20
AZ21835	Chloride	mg/L	0.0333	0.50	10.0	21.7	12.3	10.0	9 to 11	94.0	80 to 120	0.00	20
AZ21835	Fluoride	mg/L	0.032	0.05	2.50	3.16	0.574	2.59	2.25 to 2.75	103	80 to 120	0.694	20

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

Comments:

Definitions

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Che George	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Gorgas Ash Pond

Bottles	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Correcting MW-23H time to 16:14. LBM 9/26/19

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6D	9/23/19	13:31	4	Groundwater		AZ21813
MW-6S	09/23/2019	14:41	4	Groundwater		AZ21814
MW-6S dup	09/23/2019	14:41	4	Sample Duplicate		AZ21815
MW-23H	09/23/2019	16:14	4	Groundwater		AZ21816
MW-17V	09/24/2019	11:50	4	Groundwater		AZ21817
MW-16D	09/24/2019	14:00	4	Groundwater		AZ21818
MW-19	09/24/2019	15:50	4	Groundwater		AZ21819
MW-19 dup	09/24/2019	15:50	4	Sample Duplicate		AZ21820
FB-1	09/24/2019	16:50	4	Field Blank		AZ21821
MW-24H	09/24/2019	18:23	4	Groundwater		AZ21822
MW-2	09/25/2019	09:27	4	Groundwater		AZ21823
MW-12V	09/25/2019	13:32	4	Groundwater		AZ21824

Relinquished By	Received By	Date/Time
		09/26/2019 07:55

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	7081-38476-1-1	
Sample Event	1241	
Cooler Temp	0.3 degrees C; 0.4 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	7267-39374-6-6	



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 09/26/2019 08:04

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Che George	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Gorgas Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Dissolved Set collected at MW-7

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17	9/23/19	14:21	1	Groundwater		AZ21851
MW-15	09/24/2019	08:00	1	Groundwater		AZ21852
MW-21	09/24/2019	10:28	1	Groundwater		AZ21853
MW-29H	09/24/2019	13:18	1	Groundwater		AZ21854
MW-7	09/24/2019	17:45	1	Groundwater		AZ21855
MW-7DIS	09/24/2019	17:45	1	Groundwater		AZ21856
MW-12	09/25/2019	10:02	1	Groundwater		AZ21857
EB-1	09/25/2019	11:20	1	Equipment Blank		AZ21858

Relinquished By	Received By	Date/Time
		09/26/2019 08:08

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	5160-26211-1-1	Cooler Temp
Sample Event	1241	Thermometer ID
		pH Strip ID
		7267-39374-6-6



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Che George	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Gorgas Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium duplicate collected at MW-23H. Correcting time to 16:14 on MW-23H. LBM 9/26/19

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6D	9/23/19	13:31	1	Groundwater		AZ21839
MW-6S	09/23/2019	14:41	1	Groundwater		AZ21840
MW-6S dup	09/23/2019	14:41	1	Sample Duplicate		AZ21841
MW-23H	09/23/2019	16:14	3	Groundwater		AZ21842
MW-17V	09/24/2019	11:50	1	Groundwater		AZ21843
MW-16D	09/24/2019	14:00	1	Groundwater		AZ21844
MW-19	09/24/2019	15:50	1	Groundwater		AZ21845
MW-19 dup	09/24/2019	15:50	1	Sample Duplicate		AZ21846
FB-1	09/24/2019	16:50	1	Field Blank		AZ21847
MW-24H	09/24/2019	18:23	1	Groundwater		AZ21848
MW-2	09/25/2019	09:27	1	Groundwater		AZ21849
MW-12V	09/25/2019	13:32	1	Groundwater		AZ21850

Relinquished By	Received By	Date/Time
		09/26/2019 07:55

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	7081-38476-1-1	
Sample Event	1241	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	7267-39374-6-6	

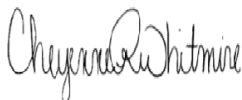
ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-177218-1
Laboratory Sample Delivery Group: Gorgas Ash Pond 1241
Client Project/Site: CCR Plant Gorgas

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:
10/30/2019 1:32:20 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 Gorgas

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Job ID: 400-177218-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-177218-1

RAD

Method 9315: Radium-226 prep batch 160-445182. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ21837 MW-28H (400-177218-1), AZ21838 FB-2 (400-177218-2), AZ21839 MW-6D (400-177218-3), AZ21840 MW-6S (400-177218-4), AZ21841 MW-6S DUP (400-177218-5), AZ21842 MW-23H (400-177218-6), AZ21842 MW-23H (400-177218-6[DUJ]), AZ21843 MW-17V (400-177218-7), AZ21844 MW-16D (400-177218-8), AZ21845 MW-19 (400-177218-9), AZ21846 MW-19 DUP (400-177218-10), AZ21847 FB-1 (400-177218-11), AZ21848 MW-24H (400-177218-12), AZ21849 MW-2 (400-177218-13), AZ21850 MW-12V (400-177218-14), AZ21851 MW-17 (400-177218-15), AZ21852 MW-15 (400-177218-16), AZ21853 MW-21 (400-177218-17), AZ21854 MW-29H (400-177218-18), AZ21855 MW-7 (400-177218-19), (LCS 160-445182/1-A) and (MB 160-445182/22-A)

Method 9315: Radium-226 prep batch 160-445193. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ21856 MW-7 DIS (400-177218-20), AZ21857 MW-12 (400-177218-21), AZ21858 EB-1 (400-177218-22), AZ21859 MW-26H (400-177218-23), AZ21860 MW-26H DIS (400-177218-24), AZ21861 MW-18 (400-177218-25), AZ21861 MW-18 (400-177218-25[DUJ]), AZ21862 MW-8 (400-177218-26), (LCS 160-445193/1-A), (MB 160-445193/22-A), (240-119817-I-5-A), (240-119817-B-5-A MS) and (240-119817-B-5-B MSD)

Method 9320: Radium-228 Prep Batch 160-445188. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ21837 MW-28H (400-177218-1), AZ21838 FB-2 (400-177218-2), AZ21839 MW-6D (400-177218-3), AZ21840 MW-6S (400-177218-4), AZ21841 MW-6S DUP (400-177218-5), AZ21842 MW-23H (400-177218-6), AZ21842 MW-23H (400-177218-6[DUJ]), AZ21843 MW-17V (400-177218-7), AZ21844 MW-16D (400-177218-8), AZ21845 MW-19 (400-177218-9), AZ21846 MW-19 DUP (400-177218-10), AZ21847 FB-1 (400-177218-11), AZ21848 MW-24H (400-177218-12), AZ21849 MW-2 (400-177218-13), AZ21850 MW-12V (400-177218-14), AZ21851 MW-17 (400-177218-15), AZ21852 MW-15 (400-177218-16), AZ21853 MW-21 (400-177218-17), AZ21854 MW-29H (400-177218-18), AZ21855 MW-7 (400-177218-19), (LCS 160-445188/1-A) and (MB 160-445188/22-A)

Method 9320: Radium-228 Prep Batch 160-445201. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ21856 MW-7 DIS (400-177218-20), AZ21857 MW-12 (400-177218-21), AZ21858 EB-1 (400-177218-22), AZ21859 MW-26H (400-177218-23), AZ21860 MW-26H DIS (400-177218-24), AZ21861 MW-18 (400-177218-25), AZ21861 MW-18 (400-177218-25[DUJ]), AZ21862 MW-8 (400-177218-26), (LCS 160-445201/1-A), (MB 160-445201/22-A), (240-119817-I-5-B), (240-119817-B-5-C MS) and (240-119817-B-5-D MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-445188. The following samples were prepared at a reduced aliquot due insufficient volume: AZ21837 MW-28H (400-177218-1), AZ21838 FB-2 (400-177218-2), AZ21839 MW-6D (400-177218-3), AZ21840 MW-6S (400-177218-4), AZ21841 MW-6S DUP (400-177218-5), AZ21842 MW-23H (400-177218-6), AZ21842 MW-23H (400-177218-6[DUJ]), AZ21843 MW-17V (400-177218-7), AZ21844 MW-16D (400-177218-8), AZ21845 MW-19 (400-177218-9), AZ21846 MW-19 DUP (400-177218-10), AZ21847 FB-1 (400-177218-11), AZ21848 MW-24H (400-177218-12), AZ21849 MW-2 (400-177218-13), AZ21850 MW-12V (400-177218-14), AZ21851 MW-17 (400-177218-15), AZ21852 MW-15 (400-177218-16), AZ21853 MW-21 (400-177218-17), AZ21854 MW-29H (400-177218-18) and AZ21855 MW-7 (400-177218-19). Samples 400-177218-A-1, 400-177218-A-12 and 400-177218-A-19 had white cloudy discoloration.

Method PrecSep_0: Radium 228 Prep Batch 160-445201. The following samples were prepared at a reduced aliquot due insufficient volume: AZ21856 MW-7 DIS (400-177218-20), AZ21857 MW-12 (400-177218-21), AZ21858 EB-1 (400-177218-22), AZ21859 MW-26H (400-177218-23), AZ21860 MW-26H DIS (400-177218-24), AZ21861 MW-18 (400-177218-25), AZ21861 MW-18 (400-177218-25[DUJ]) and AZ21862 MW-8 (400-177218-26). Samples 400-177218-A-23 and 240-119817-D-1 had white cloudy discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-445182. The following samples were prepared at a reduced aliquot due insufficient volume: AZ21837 MW-28H (400-177218-1), AZ21838 FB-2 (400-177218-2), AZ21839 MW-6D (400-177218-3), AZ21840 MW-6S (400-177218-4), AZ21841 MW-6S DUP (400-177218-5), AZ21842 MW-23H (400-177218-6), AZ21842 MW-23H (400-177218-6[DUJ]),

Case Narrative

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Job ID: 400-177218-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

AZ21843 MW-17V (400-177218-7), AZ21844 MW-16D (400-177218-8), AZ21845 MW-19 (400-177218-9), AZ21846 MW-19 DUP (400-177218-10), AZ21847 FB-1 (400-177218-11), AZ21848 MW-24H (400-177218-12), AZ21849 MW-2 (400-177218-13), AZ21850 MW-12V (400-177218-14), AZ21851 MW-17 (400-177218-15), AZ21852 MW-15 (400-177218-16), AZ21853 MW-21 (400-177218-17), AZ21854 MW-29H (400-177218-18) and AZ21855 MW-7 (400-177218-19). Samples 400-177218-A-1, 400-177218-A-12 and 400-177218-A-19 had white cloudy discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-445193. The following samples were prepared at a reduced aliquot due insufficient volume: AZ21856 MW-7 DIS (400-177218-20), AZ21857 MW-12 (400-177218-21), AZ21858 EB-1 (400-177218-22), AZ21859 MW-26H (400-177218-23), AZ21860 MW-26H DIS (400-177218-24), AZ21861 MW-18 (400-177218-25), AZ21861 MW-18 (400-177218-25[DU]) and AZ21862 MW-8 (400-177218-26). Samples 400-177218-A-23 and 240-119817-D-1 had white cloudy discoloration.



Method Summary

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

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
Ra226_Ra228 (D)	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-177218-1	AZ21837 MW-28H	Water	09/25/19 11:42	09/30/19 13:50	
400-177218-2	AZ21838 FB-2	Water	09/25/19 11:35	09/30/19 13:50	
400-177218-3	AZ21839 MW-6D	Water	09/23/19 13:31	09/30/19 13:50	
400-177218-4	AZ21840 MW-6S	Water	09/23/19 14:41	09/30/19 13:50	
400-177218-5	AZ21841 MW-6S DUP	Water	09/23/19 14:41	09/30/19 13:50	
400-177218-6	AZ21842 MW-23H	Water	09/23/19 16:14	09/30/19 13:50	
400-177218-7	AZ21843 MW-17V	Water	09/24/19 11:50	09/30/19 13:50	
400-177218-8	AZ21844 MW-16D	Water	09/24/19 14:00	09/30/19 13:50	
400-177218-9	AZ21845 MW-19	Water	09/24/19 15:50	09/30/19 13:50	
400-177218-10	AZ21846 MW-19 DUP	Water	09/24/19 15:50	09/30/19 13:50	
400-177218-11	AZ21847 FB-1	Water	09/24/19 16:50	09/30/19 13:50	
400-177218-12	AZ21848 MW-24H	Water	09/24/19 18:23	09/30/19 13:50	
400-177218-13	AZ21849 MW-2	Water	09/25/19 09:27	09/30/19 13:50	
400-177218-14	AZ21850 MW-12V	Water	09/25/19 13:32	09/30/19 13:50	
400-177218-15	AZ21851 MW-17	Water	09/23/19 14:21	09/30/19 13:50	
400-177218-16	AZ21852 MW-15	Water	09/24/19 08:00	09/30/19 13:50	
400-177218-17	AZ21853 MW-21	Water	09/24/19 10:28	09/30/19 13:50	
400-177218-18	AZ21854 MW-29H	Water	09/24/19 13:18	09/30/19 13:50	
400-177218-19	AZ21855 MW-7	Water	09/24/19 17:45	09/30/19 13:50	
400-177218-20	AZ21856 MW-7 DIS	Water	09/24/19 17:45	09/30/19 13:50	
400-177218-21	AZ21857 MW-12	Water	09/25/19 10:02	09/30/19 13:50	
400-177218-22	AZ21858 EB-1	Water	09/25/19 11:20	09/30/19 13:50	
400-177218-23	AZ21859 MW-26H	Water	09/23/19 17:00	09/30/19 13:50	
400-177218-24	AZ21860 MW-26H DIS	Water	09/23/19 17:00	09/30/19 13:50	
400-177218-25	AZ21861 MW-18	Water	09/24/19 11:45	09/30/19 13:50	
400-177218-26	AZ21862 MW-8	Water	09/24/19 18:02	09/30/19 13:50	

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21837 MW-28H

Lab Sample ID: 400-177218-1

Date Collected: 09/25/19 11:42

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.265		0.145	0.147	1.00	0.192	pCi/L	10/04/19 12:53	10/28/19 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					10/04/19 12:53	10/28/19 11:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.383	U	0.457	0.458	1.00	0.754	pCi/L	10/04/19 13:40	10/18/19 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					10/04/19 13:40	10/18/19 13:48	1
Y Carrier	69.9		40 - 110					10/04/19 13:40	10/18/19 13:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.648	U	0.479	0.481	5.00	0.754	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21838 FB-2

Lab Sample ID: 400-177218-2

Date Collected: 09/25/19 11:35

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.290		0.147	0.149	1.00	0.193	pCi/L	10/04/19 12:53	10/28/19 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					10/04/19 12:53	10/28/19 11:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.378	U	0.400	0.401	1.00	0.654	pCi/L	10/04/19 13:40	10/18/19 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					10/04/19 13:40	10/18/19 13:48	1
Y Carrier	74.0		40 - 110					10/04/19 13:40	10/18/19 13:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.668		0.426	0.428	5.00	0.654	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21839 MW-6D

Lab Sample ID: 400-177218-3

Date Collected: 09/23/19 13:31

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.344		0.144	0.148	1.00	0.174	pCi/L	10/04/19 12:53	10/28/19 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					10/04/19 12:53	10/28/19 11:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.332	U	0.331	0.332	1.00	0.537	pCi/L	10/04/19 13:40	10/18/19 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					10/04/19 13:40	10/18/19 13:48	1
Y Carrier	74.8		40 - 110					10/04/19 13:40	10/18/19 13:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.677		0.361	0.363	5.00	0.537	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21840 MW-6S

Lab Sample ID: 400-177218-4

Date Collected: 09/23/19 14:41

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.449		0.173	0.178	1.00	0.211	pCi/L	10/04/19 12:53	10/28/19 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					10/04/19 12:53	10/28/19 11:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.612	U	0.403	0.407	1.00	0.624	pCi/L	10/04/19 13:40	10/18/19 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					10/04/19 13:40	10/18/19 13:48	1
Y Carrier	71.4		40 - 110					10/04/19 13:40	10/18/19 13:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.439	0.444	5.00	0.624	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21841 MW-6S DUP

Lab Sample ID: 400-177218-5

Date Collected: 09/23/19 14:41

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220		0.124	0.125	1.00	0.164	pCi/L	10/04/19 12:53	10/28/19 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					10/04/19 12:53	10/28/19 11:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.356	0.357	1.00	0.591	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	74.8		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.498	U	0.377	0.378	5.00	0.591	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21842 MW-23H

Lab Sample ID: 400-177218-6

Date Collected: 09/23/19 16:14

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.0982	0.0986	1.00	0.152	pCi/L	10/04/19 12:53	10/28/19 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					10/04/19 12:53	10/28/19 11:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0966	U	0.318	0.318	1.00	0.586	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	74.8		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00709	U	0.333	0.333	5.00	0.586	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21843 MW-17V

Lab Sample ID: 400-177218-7

Date Collected: 09/24/19 11:50

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.223		0.116	0.118	1.00	0.140	pCi/L	10/04/19 12:53	10/28/19 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					10/04/19 12:53	10/28/19 11:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.151	U	0.338	0.338	1.00	0.580	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	77.4		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.373	U	0.357	0.358	5.00	0.580	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21844 MW-16D

Lab Sample ID: 400-177218-8

Date Collected: 09/24/19 14:00

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.161	U	0.119	0.120	1.00	0.175	pCi/L	10/04/19 12:53	10/28/19 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					10/04/19 12:53	10/28/19 11:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.194	U	0.337	0.337	1.00	0.638	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	69.9		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0330	U	0.357	0.358	5.00	0.638	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21845 MW-19

Lab Sample ID: 400-177218-9

Date Collected: 09/24/19 15:50

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.309		0.140	0.143	1.00	0.166	pCi/L	10/04/19 12:53	10/28/19 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					10/04/19 12:53	10/28/19 11:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.315	0.316	1.00	0.502	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	77.8		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.664		0.345	0.347	5.00	0.502	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21846 MW-19 DUP

Lab Sample ID: 400-177218-10

Date Collected: 09/24/19 15:50

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.413		0.155	0.160	1.00	0.173	pCi/L	10/04/19 12:53	10/28/19 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					10/04/19 12:53	10/28/19 11:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.635		0.368	0.373	1.00	0.554	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	75.1		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.05		0.399	0.406	5.00	0.554	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21847 FB-1

Lab Sample ID: 400-177218-11

Date Collected: 09/24/19 16:50

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.266		0.147	0.149	1.00	0.200	pCi/L	10/04/19 12:53	10/28/19 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					10/04/19 12:53	10/28/19 11:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.271	U	0.361	0.362	1.00	0.684	pCi/L	10/04/19 13:40	10/18/19 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					10/04/19 13:40	10/18/19 13:49	1
Y Carrier	72.1		40 - 110					10/04/19 13:40	10/18/19 13:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00533	U	0.390	0.391	5.00	0.684	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21848 MW-24H

Lab Sample ID: 400-177218-12

Date Collected: 09/24/19 18:23

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.622		0.181	0.190	1.00	0.174	pCi/L	10/04/19 12:53	10/28/19 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					10/04/19 12:53	10/28/19 11:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.605	U	0.424	0.427	1.00	0.667	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	74.4		40 - 110					10/04/19 13:40	10/18/19 13:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.23		0.461	0.467	5.00	0.667	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21849 MW-2

Lab Sample ID: 400-177218-13

Date Collected: 09/25/19 09:27

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.344		0.153	0.156	1.00	0.185	pCi/L	10/04/19 12:53	10/28/19 11:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					10/04/19 12:53	10/28/19 11:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.193	U	0.431	0.431	1.00	0.735	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	69.9		40 - 110					10/04/19 13:40	10/18/19 13:51	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	0.537	U	0.457	0.458	5.00	0.735	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21850 MW-12V

Lab Sample ID: 400-177218-14

Date Collected: 09/25/19 13:32

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.694		0.188	0.198	1.00	0.166	pCi/L	10/04/19 12:53	10/28/19 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					10/04/19 12:53	10/28/19 11:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.337	U	0.373	0.374	1.00	0.612	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	78.1		40 - 110					10/04/19 13:40	10/18/19 13:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.03		0.418	0.423	5.00	0.612	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21851 MW-17

Lab Sample ID: 400-177218-15

Date Collected: 09/23/19 14:21

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.288		0.146	0.148	1.00	0.191	pCi/L	10/04/19 12:53	10/28/19 11:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					10/04/19 12:53	10/28/19 11:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.695	U	0.463	0.467	1.00	0.726	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	80.4		40 - 110					10/04/19 13:40	10/18/19 13:51	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	0.983		0.485	0.490	5.00	0.726	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21852 MW-15

Lab Sample ID: 400-177218-16

Date Collected: 09/24/19 08:00

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.420		0.153	0.158	1.00	0.164	pCi/L	10/04/19 12:53	10/28/19 11:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					10/04/19 12:53	10/28/19 11:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.530	U	0.432	0.435	1.00	0.688	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	68.8		40 - 110					10/04/19 13:40	10/18/19 13:51	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	0.951		0.458	0.463	5.00	0.688	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21853 MW-21

Lab Sample ID: 400-177218-17

Date Collected: 09/24/19 10:28

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.482		0.162	0.167	1.00	0.169	pCi/L	10/04/19 12:53	10/28/19 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					10/04/19 12:53	10/28/19 13:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.594	U	0.472	0.475	1.00	0.751	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	64.7		40 - 110					10/04/19 13:40	10/18/19 13:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.499	0.504	5.00	0.751	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21854 MW-29H

Lab Sample ID: 400-177218-18

Date Collected: 09/24/19 13:18

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.500		0.170	0.176	1.00	0.187	pCi/L	10/04/19 12:53	10/28/19 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					10/04/19 12:53	10/28/19 13:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.590	U	0.444	0.447	1.00	0.703	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					10/04/19 13:40	10/18/19 13:51	1
Y Carrier	70.3		40 - 110					10/04/19 13:40	10/18/19 13:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.09		0.475	0.480	5.00	0.703	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21855 MW-7

Lab Sample ID: 400-177218-19

Date Collected: 09/24/19 17:45

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.142	0.145	1.00	0.173	pCi/L	10/04/19 12:53	10/28/19 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
<i>Ba Carrier</i>	84.5		40 - 110					10/04/19 12:53	10/28/19 13:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.307	U	0.457	0.457	1.00	0.764	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
<i>Ba Carrier</i>	84.5		40 - 110					10/04/19 13:40	10/18/19 13:51	1
<i>Y Carrier</i>	72.5		40 - 110					10/04/19 13:40	10/18/19 13:51	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	0.618	U	0.479	0.479	5.00	0.764	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21856 MW-7 DIS

Lab Sample ID: 400-177218-20

Date Collected: 09/24/19 17:45

Matrix: Water

Date Received: 09/30/19 13:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.384		0.186	0.189	1.00	0.234	pCi/L	10/04/19 14:45	10/28/19 05:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					10/04/19 14:45	10/28/19 05:36	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	-0.0441	U	0.393	0.393	1.00	0.709	pCi/L	10/04/19 15:30	10/22/19 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	76.6		40 - 110					10/04/19 15:30	10/22/19 13:12	1

Method: Ra226_Ra228 (D) - 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	0.340	U	0.435	0.436	5.00	0.709	pCi/L		10/30/19 08:28	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21857 MW-12

Lab Sample ID: 400-177218-21

Date Collected: 09/25/19 10:02

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.606		0.209	0.216	1.00	0.222	pCi/L	10/04/19 14:45	10/28/19 05:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					10/04/19 14:45	10/28/19 05:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.164	U	0.392	0.392	1.00	0.723	pCi/L	10/04/19 15:30	10/22/19 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	72.9		40 - 110					10/04/19 15:30	10/22/19 13:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.442	U	0.444	0.448	5.00	0.723	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21858 EB-1

Lab Sample ID: 400-177218-22

Date Collected: 09/25/19 11:20

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255		0.166	0.167	1.00	0.236	pCi/L	10/04/19 14:45	10/28/19 05:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					10/04/19 14:45	10/28/19 05:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0407	U	0.426	0.426	1.00	0.756	pCi/L	10/04/19 15:30	10/22/19 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	71.0		40 - 110					10/04/19 15:30	10/22/19 13:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.295	U	0.457	0.458	5.00	0.756	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21859 MW-26H

Lab Sample ID: 400-177218-23

Date Collected: 09/23/19 17:00

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.355		0.178	0.181	1.00	0.223	pCi/L	10/04/19 14:45	10/28/19 05:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		40 - 110					10/04/19 14:45	10/28/19 05:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0492	U	0.406	0.406	1.00	0.721	pCi/L	10/04/19 15:30	10/22/19 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	75.9		40 - 110					10/04/19 15:30	10/22/19 13:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.404	U	0.443	0.445	5.00	0.721	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21860 MW-26H DIS

Lab Sample ID: 400-177218-24

Date Collected: 09/23/19 17:00

Matrix: Water

Date Received: 09/30/19 13:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.424		0.177	0.181	1.00	0.207	pCi/L	10/04/19 14:45	10/28/19 08:14	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.3		40 - 110					10/04/19 14:45	10/28/19 08:14	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	0.141	U	0.346	0.346	1.00	0.597	pCi/L	10/04/19 15:30	10/22/19 13:12	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.3		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	79.6		40 - 110					10/04/19 15:30	10/22/19 13:12	1

Method: Ra226_Ra228 (D) - 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	0.564	U	0.389	0.390	5.00	0.597	pCi/L		10/30/19 08:28	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21861 MW-18

Lab Sample ID: 400-177218-25

Date Collected: 09/24/19 11:45

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.322		0.170	0.172	1.00	0.227	pCi/L	10/04/19 14:45	10/28/19 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					10/04/19 14:45	10/28/19 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0528	U	0.412	0.412	1.00	0.726	pCi/L	10/04/19 15:30	10/22/19 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	69.5		40 - 110					10/04/19 15:30	10/22/19 13:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.375	U	0.446	0.446	5.00	0.726	pCi/L		10/30/19 08:25	1

Client Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21862 MW-8

Lab Sample ID: 400-177218-26

Date Collected: 09/24/19 18:02

Matrix: Water

Date Received: 09/30/19 13:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.366		0.181	0.184	1.00	0.235	pCi/L	10/04/19 14:45	10/28/19 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					10/04/19 14:45	10/28/19 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.386	U	0.408	0.410	1.00	0.667	pCi/L	10/04/19 15:30	10/22/19 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					10/04/19 15:30	10/22/19 13:12	1
Y Carrier	79.6		40 - 110					10/04/19 15:30	10/22/19 13:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.753		0.446	0.449	5.00	0.667	pCi/L		10/30/19 08:25	1

Definitions/Glossary

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

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.
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 Gorgas

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21837 MW-28H

Lab Sample ID: 400-177218-1

Date Collected: 09/25/19 11:42

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:12	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:48	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21838 FB-2

Lab Sample ID: 400-177218-2

Date Collected: 09/25/19 11:35

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:13	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:48	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21839 MW-6D

Lab Sample ID: 400-177218-3

Date Collected: 09/23/19 13:31

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:13	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:48	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21840 MW-6S

Lab Sample ID: 400-177218-4

Date Collected: 09/23/19 14:41

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:13	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:48	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21841 MW-6S DUP

Lab Sample ID: 400-177218-5

Date Collected: 09/23/19 14:41

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:13	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21842 MW-23H

Lab Sample ID: 400-177218-6

Date Collected: 09/23/19 16:14

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:13	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21843 MW-17V

Lab Sample ID: 400-177218-7

Date Collected: 09/24/19 11:50

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:13	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21844 MW-16D

Lab Sample ID: 400-177218-8

Date Collected: 09/24/19 14:00

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21845 MW-19

Lab Sample ID: 400-177218-9

Date Collected: 09/24/19 15:50

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21846 MW-19 DUP

Lab Sample ID: 400-177218-10

Date Collected: 09/24/19 15:50

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21847 FB-1

Lab Sample ID: 400-177218-11

Date Collected: 09/24/19 16:50

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446867	10/18/19 13:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21848 MW-24H

Lab Sample ID: 400-177218-12

Date Collected: 09/24/19 18:23

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21849 MW-2

Lab Sample ID: 400-177218-13

Date Collected: 09/25/19 09:27

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:15	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21850 MW-12V

Lab Sample ID: 400-177218-14

Date Collected: 09/25/19 13:32

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 11:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21851 MW-17

Lab Sample ID: 400-177218-15

Date Collected: 09/23/19 14:21

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	448065	10/28/19 11:17	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21852 MW-15

Lab Sample ID: 400-177218-16

Date Collected: 09/24/19 08:00

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	448065	10/28/19 11:17	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21853 MW-21

Lab Sample ID: 400-177218-17

Date Collected: 09/24/19 10:28

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 13:36	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21854 MW-29H

Lab Sample ID: 400-177218-18

Date Collected: 09/24/19 13:18

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 13:36	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21855 MW-7

Lab Sample ID: 400-177218-19

Date Collected: 09/24/19 17:45

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445182	10/04/19 12:53	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 13:36	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445188	10/04/19 13:40	ORM	TAL SL
Total/NA	Analysis	9320		1	446862	10/18/19 13:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21856 MW-7 DIS

Lab Sample ID: 400-177218-20

Date Collected: 09/24/19 17:45

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Dissolved	Analysis	9315		1	447982	10/28/19 05:36	KLS	TAL SL
Dissolved	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Dissolved	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Dissolved	Analysis	Ra226_Ra228 (D)		1	448327	10/30/19 08:28	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21857 MW-12

Lab Sample ID: 400-177218-21

Date Collected: 09/25/19 10:02

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 05:36	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Total/NA	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21858 EB-1

Lab Sample ID: 400-177218-22

Date Collected: 09/25/19 11:20

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Total/NA	Analysis	9315		1	448065	10/28/19 05:37	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Total/NA	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21859 MW-26H

Lab Sample ID: 400-177218-23

Date Collected: 09/23/19 17:00

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Total/NA	Analysis	9315		1	448065	10/28/19 05:37	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Total/NA	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21860 MW-26H DIS

Lab Sample ID: 400-177218-24

Date Collected: 09/23/19 17:00

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Dissolved	Analysis	9315		1	447982	10/28/19 08:14	KLS	TAL SL
Dissolved	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Dissolved	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Dissolved	Analysis	Ra226_Ra228 (D)		1	448327	10/30/19 08:28	SMP	TAL SL

Lab Chronicle

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Client Sample ID: AZ21861 MW-18

Lab Sample ID: 400-177218-25

Date Collected: 09/24/19 11:45

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 08:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Total/NA	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Client Sample ID: AZ21862 MW-8

Lab Sample ID: 400-177218-26

Date Collected: 09/24/19 18:02

Matrix: Water

Date Received: 09/30/19 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			445193	10/04/19 14:45	ORM	TAL SL
Total/NA	Analysis	9315		1	447982	10/28/19 08:14	KLS	TAL SL
Total/NA	Prep	PrecSep_0			445201	10/04/19 15:30	ORM	TAL SL
Total/NA	Analysis	9320		1	447241	10/22/19 13:12	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	448326	10/30/19 08:25	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Rad

Prep Batch: 445182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-177218-1	AZ21837 MW-28H	Total/NA	Water	PrecSep-21	
400-177218-2	AZ21838 FB-2	Total/NA	Water	PrecSep-21	
400-177218-3	AZ21839 MW-6D	Total/NA	Water	PrecSep-21	
400-177218-4	AZ21840 MW-6S	Total/NA	Water	PrecSep-21	
400-177218-5	AZ21841 MW-6S DUP	Total/NA	Water	PrecSep-21	
400-177218-6	AZ21842 MW-23H	Total/NA	Water	PrecSep-21	
400-177218-7	AZ21843 MW-17V	Total/NA	Water	PrecSep-21	
400-177218-8	AZ21844 MW-16D	Total/NA	Water	PrecSep-21	
400-177218-9	AZ21845 MW-19	Total/NA	Water	PrecSep-21	
400-177218-10	AZ21846 MW-19 DUP	Total/NA	Water	PrecSep-21	
400-177218-11	AZ21847 FB-1	Total/NA	Water	PrecSep-21	
400-177218-12	AZ21848 MW-24H	Total/NA	Water	PrecSep-21	
400-177218-13	AZ21849 MW-2	Total/NA	Water	PrecSep-21	
400-177218-14	AZ21850 MW-12V	Total/NA	Water	PrecSep-21	
400-177218-15	AZ21851 MW-17	Total/NA	Water	PrecSep-21	
400-177218-16	AZ21852 MW-15	Total/NA	Water	PrecSep-21	
400-177218-17	AZ21853 MW-21	Total/NA	Water	PrecSep-21	
400-177218-18	AZ21854 MW-29H	Total/NA	Water	PrecSep-21	
400-177218-19	AZ21855 MW-7	Total/NA	Water	PrecSep-21	
MB 160-445182/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-445182/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-177218-6 DU	AZ21842 MW-23H	Total/NA	Water	PrecSep-21	

Prep Batch: 445188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-177218-1	AZ21837 MW-28H	Total/NA	Water	PrecSep_0	
400-177218-2	AZ21838 FB-2	Total/NA	Water	PrecSep_0	
400-177218-3	AZ21839 MW-6D	Total/NA	Water	PrecSep_0	
400-177218-4	AZ21840 MW-6S	Total/NA	Water	PrecSep_0	
400-177218-5	AZ21841 MW-6S DUP	Total/NA	Water	PrecSep_0	
400-177218-6	AZ21842 MW-23H	Total/NA	Water	PrecSep_0	
400-177218-7	AZ21843 MW-17V	Total/NA	Water	PrecSep_0	
400-177218-8	AZ21844 MW-16D	Total/NA	Water	PrecSep_0	
400-177218-9	AZ21845 MW-19	Total/NA	Water	PrecSep_0	
400-177218-10	AZ21846 MW-19 DUP	Total/NA	Water	PrecSep_0	
400-177218-11	AZ21847 FB-1	Total/NA	Water	PrecSep_0	
400-177218-12	AZ21848 MW-24H	Total/NA	Water	PrecSep_0	
400-177218-13	AZ21849 MW-2	Total/NA	Water	PrecSep_0	
400-177218-14	AZ21850 MW-12V	Total/NA	Water	PrecSep_0	
400-177218-15	AZ21851 MW-17	Total/NA	Water	PrecSep_0	
400-177218-16	AZ21852 MW-15	Total/NA	Water	PrecSep_0	
400-177218-17	AZ21853 MW-21	Total/NA	Water	PrecSep_0	
400-177218-18	AZ21854 MW-29H	Total/NA	Water	PrecSep_0	
400-177218-19	AZ21855 MW-7	Total/NA	Water	PrecSep_0	
MB 160-445188/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-445188/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-177218-6 DU	AZ21842 MW-23H	Total/NA	Water	PrecSep_0	

Prep Batch: 445193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-177218-20	AZ21856 MW-7 DIS	Dissolved	Water	PrecSep-21	

QC Association Summary

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

Job ID: 400-177218-1
SDG: Gorgas Ash Pond 1241

Rad (Continued)

Prep Batch: 445193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-177218-21	AZ21857 MW-12	Total/NA	Water	PrecSep-21	
400-177218-22	AZ21858 EB-1	Total/NA	Water	PrecSep-21	
400-177218-23	AZ21859 MW-26H	Total/NA	Water	PrecSep-21	
400-177218-24	AZ21860 MW-26H DIS	Dissolved	Water	PrecSep-21	
400-177218-25	AZ21861 MW-18	Total/NA	Water	PrecSep-21	
400-177218-26	AZ21862 MW-8	Total/NA	Water	PrecSep-21	
MB 160-445193/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-445193/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-119817-B-5-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
240-119817-B-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
400-177218-25 DU	AZ21861 MW-18	Total/NA	Water	PrecSep-21	

Prep Batch: 445201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-177218-20	AZ21856 MW-7 DIS	Dissolved	Water	PrecSep_0	
400-177218-21	AZ21857 MW-12	Total/NA	Water	PrecSep_0	
400-177218-22	AZ21858 EB-1	Total/NA	Water	PrecSep_0	
400-177218-23	AZ21859 MW-26H	Total/NA	Water	PrecSep_0	
400-177218-24	AZ21860 MW-26H DIS	Dissolved	Water	PrecSep_0	
400-177218-25	AZ21861 MW-18	Total/NA	Water	PrecSep_0	
400-177218-26	AZ21862 MW-8	Total/NA	Water	PrecSep_0	
MB 160-445201/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-445201/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-119817-B-5-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	
240-119817-B-5-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
400-177218-25 DU	AZ21861 MW-18	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-445182/22-A
Matrix: Water
Analysis Batch: 447982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445182

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1781	U	0.125	0.126	1.00	0.183	pCi/L	10/04/19 12:59	10/28/19 13:36	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					10/04/19 12:59	10/28/19 13:36	1
	88.4									

Lab Sample ID: LCS 160-445182/1-A
Matrix: Water
Analysis Batch: 447982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445182

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	12.28		1.30	1.00	0.175	pCi/L	81	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	97.2		40 - 110						

Lab Sample ID: 400-177218-6 DU
Matrix: Water
Analysis Batch: 447982

Client Sample ID: AZ21842 MW-23H
Prep Type: Total/NA
Prep Batch: 445182

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.104	U	0.2998		0.136	1.00	0.160	pCi/L	0.84	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	91.5		40 - 110							

Lab Sample ID: MB 160-445193/22-A
Matrix: Water
Analysis Batch: 447982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445193

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1487	U	0.104	0.105	1.00	0.149	pCi/L	10/04/19 14:45	10/28/19 11:09	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					10/04/19 14:45	10/28/19 11:09	1
	86.7									

Lab Sample ID: LCS 160-445193/1-A
Matrix: Water
Analysis Batch: 447982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445193

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	11.65		1.25	1.00	0.190	pCi/L	103	75 - 125

QC Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

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

Lab Sample ID: LCS 160-445193/1-A
Matrix: Water
Analysis Batch: 447982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445193

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	79.7		40 - 110

Lab Sample ID: 240-119817-B-5-A MS
Matrix: Water
Analysis Batch: 447982

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 445193

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.174		11.3	11.64		1.25	1.00	0.171	pCi/L	101	75 - 138		
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	81.4		40 - 110										

Lab Sample ID: 240-119817-B-5-B MSD
Matrix: Water
Analysis Batch: 448065

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 445193

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	0.174		11.3	12.41		1.32	1.00	0.184	pCi/L	108	75 - 138	0.30	1	
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	73.4		40 - 110											

Lab Sample ID: 400-177218-25 DU
Matrix: Water
Analysis Batch: 447982

Client Sample ID: AZ21861 MW-18
Prep Type: Total/NA
Prep Batch: 445193

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.322		0.3685		0.172	1.00	0.206	pCi/L	0.14	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	84.5		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-445188/22-A
Matrix: Water
Analysis Batch: 446862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445188

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.9240		0.454	0.461	1.00	0.667	pCi/L	10/04/19 13:40	10/18/19 13:51	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.4		40 - 110							

Eurofins TestAmerica, Pensacola

QC Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

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

Lab Sample ID: MB 160-445188/22-A
Matrix: Water
Analysis Batch: 446862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445188

	<i>MB</i>	<i>MB</i>							
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>		
Y Carrier	66.9		40 - 110		10/04/19 13:40	10/18/19 13:51	1		

Lab Sample ID: LCS 160-445188/1-A
Matrix: Water
Analysis Batch: 446867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445188

<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	12.6	14.03		1.61	1.00	0.584	pCi/L	111	75 - 125	

	<i>LCS</i>	<i>LCS</i>		
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>	
Ba Carrier	97.2		40 - 110	
Y Carrier	71.4		40 - 110	

Lab Sample ID: 400-177218-6 DU
Matrix: Water
Analysis Batch: 446867

Client Sample ID: AZ21842 MW-23H
Prep Type: Total/NA
Prep Batch: 445188

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qual</i>	<i>DU Result</i>	<i>DU Qual</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>RER</i>	<i>RER Limit</i>
Radium-228	-0.0966	U	0.0000	U	0.285	1.00	0.514	pCi/L	0.16	1

	<i>DU</i>	<i>DU</i>		
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>	
Ba Carrier	91.5		40 - 110	
Y Carrier	74.8		40 - 110	

Lab Sample ID: MB 160-445201/22-A
Matrix: Water
Analysis Batch: 447135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445201

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Radium-228	0.3107	U	0.308	0.309	1.00	0.500	pCi/L	10/04/19 15:30	10/22/19 13:16	1

	<i>MB</i>	<i>MB</i>							
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>		
Ba Carrier	86.7		40 - 110		10/04/19 15:30	10/22/19 13:16	1		
Y Carrier	75.9		40 - 110		10/04/19 15:30	10/22/19 13:16	1		

Lab Sample ID: LCS 160-445201/1-A
Matrix: Water
Analysis Batch: 447241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445201

<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	9.47	10.29		1.25	1.00	0.546	pCi/L	109	75 - 125	

QC Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

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

Lab Sample ID: LCS 160-445201/1-A
Matrix: Water
Analysis Batch: 447241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445201

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	79.7	U	40 - 110
Y Carrier	77.4	U	40 - 110

Lab Sample ID: 240-119817-B-5-C MS
Matrix: Water
Analysis Batch: 447135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 445201

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
	Result	Qual		Result	Qual								
Radium-228	-0.111	U	9.47	10.56	U	1.36	1.00	0.691	pCi/L	112	45 - 150		

Carrier	MS		Limits
	%Yield	Qualifier	
Ba Carrier	81.4	U	40 - 110
Y Carrier	60.6	U	40 - 110

Lab Sample ID: 240-119817-B-5-D MSD
Matrix: Water
Analysis Batch: 447135

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 445201

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
	Result	Qual		Result	Qual								
Radium-228	-0.111	U	9.46	12.05	U	1.42	1.00	0.585	pCi/L	127	45 - 150	0.54	1

Carrier	MSD		Limits
	%Yield	Qualifier	
Ba Carrier	73.4	U	40 - 110
Y Carrier	85.6	U	40 - 110

Lab Sample ID: 400-177218-25 DU
Matrix: Water
Analysis Batch: 447241

Client Sample ID: AZ21861 MW-18
Prep Type: Total/NA
Prep Batch: 445201

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	Limit
	Result	Qual		Result						
Radium-228	0.0528	U	0.04438	U	0.362	1.00	0.639	pCi/L	0.01	1

Carrier	DU		Limits
	%Yield	Qualifier	
Ba Carrier	84.5	U	40 - 110
Y Carrier	80.0	U	40 - 110

QC Sample Results

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

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

Lab Sample ID: 400-177218-6 DU
Matrix: Water
Analysis Batch: 448326

Client Sample ID: AZ21842 MW-23H
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	0.00709	U	0.2998	U	0.316	5.00	0.514	pCi/L	0.45	

Lab Sample ID: 400-177218-25 DU
Matrix: Water
Analysis Batch: 448326

Client Sample ID: AZ21861 MW-18
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	0.375	U	0.4129	U	0.401	5.00	0.639	pCi/L	0.05	

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TestAmerica Pensacola

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

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING



400-177218 COC

Client Information (Sub Contract Lab) Client Contact: Nick Pitts Laura Mickif Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 SSC#8 City: Calera State, Zip: AL, 35040 Phone: 205-664-6197 Email: lhmickif@southernco.com Project Name: 40007143 CCR Site: Gorgas Ash Pond 1241		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamerica.com State of Origin: Alabama Accreditation: (See Note)		Carrier Tracking Note: COC No: 400-56525-24537.1 Page: Page 1 of 4 Job #:		
Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: 40007143 SSOW#:		Analysis Requested 9315 Ra226, 9320 Ra228, Ra226Ra228, CFPc SM 4500 F.C SM 4500 Cl.E SM 4500 SO4.E Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers <input checked="" type="checkbox"/>				
Sample Identification - Client ID (Lab ID) AZ21837 AZ21838		Matrix (Water, Groundwater, Surface Water, etc.) Water Water	Sample Type (C=Comp, G=Grab) G G	Sample Date 9/25/19 9/25/19	Preservation Code G G	Special Instructions/Note: 1 MWZ8H 1 FB-2 (Field Blank)
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance items out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.						
Possible Hazard Identification Unconfirmed		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) 43589 Special Instructions/COC Requirements				
Empty Kit Relinquished by: Laura Mickif Relinquished by:		Date/Time: 09/27/19 8:00 Date/Time:		Method of Shipment: Date/Time: 9/30/19 13:50 Date/Time:		Company:
Relinquished by:		Date/Time:		Date/Time:		Company:
Relinquished by:		Date/Time:		Date/Time:		Company:
Custody Seals Intact: <input checked="" type="checkbox"/> Custody Seal No.: 30.2°C, 29.2°C JK 17 Cooler Temperature(s) °C and Other Remarks:						

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Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Laura Miedki Company: Alabama Power General Test Laboratory Address: 744 County Rd 87 GSC#8 City: Callera State, Zip: AL, 35040 Phone: 205-664-6197 Email: lmidki@alpower.com Project Name: 40007143 CCR Site: Gorgas Ash Pond 1241		Lab PM: Whitire, Chyenne R E-Mail: chyenne.whitire@testamerica.com Accreditation: Required (See note)		Carrier Tracking No(s): 400-56525-24537.1 State of Origin: Alabama Page: Page 4 of 4 Job #:							
Due Date Requested: TAT Requested (days): Routine PO #: WO #: Project #: SSOV#		Analysis Requested 9315_Ra228_920_Ra228_Ra228a228_GFPc SM 4500 SO4 E SM 4500 CL E SM 4500 F C Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered MS/MSD (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers <input checked="" type="checkbox"/>									
Sample Identification - Client ID (Lab ID) AZ21859 AZ21860 AZ21861 AZ21862		Sample Date 9/23/19 9/23/19 9/24/19 9/24/19		Sample Type (C=Comp, G=grab) G G G G		Matrix (Water, Overstabil, BTA-Tissue, ACh) Water Water Water Water		Preservation Code MW-26H MW-26H DIS MW-18 MW-8		Special Instructions/Note: MW-26H MW-26H DIS MW-18 MW-8	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, matrix & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.											
Possible Hazard Identification Unconfirmed Deliverable Requested: I, III, IV, Other (specify) 43588 Special Instructions/OC 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/Time: 09/27/19 8:50 Date/Time: 09/20/19 1350 Date/Time: _____ Date/Time: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: 29.2° C/AH											
Custody Seals Intact: _____ Custody Seal No.: _____ Ver: 09/20/2016											



Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-177218-1
SDG Number: Gorgas Ash Pond 1241

Login Number: 177218

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins 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	30.2°C, 29.2°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	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-177218-1
SDG Number: Gorgas Ash Pond 1241

Login Number: 177218

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/03/19 10:08 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-22-20
Arizona	State	AZ0710	01-12-20
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Iowa	State	367	08-01-20
Iowa	State Program	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (UST)	State Program	53	06-30-20
Kentucky (WW)	State	KY98030	12-30-19
Louisiana	NELAP	30976	06-30-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	NELAP	LA017	12-31-19
Louisiana (DW)	State	<cert No.>	12-31-19
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-19
New Jersey	NELAP	FL006	07-30-20
North Carolina (WW/SW)	State	314	12-31-19
North Carolina (WW/SW)	State Program	314	12-31-19
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Rhode Island	State	LAO00307	12-30-19
Rhode Island	State Program	LAO00307	12-30-19
South Carolina	State	96026002	06-30-20
South Carolina	State Program	96026	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	Federal	LE058448-0	07-31-20
US Fish & Wildlife	US Federal Programs	LE058448	06-07-20
USDA	Federal	P330-18-00148	05-17-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20



Accreditation/Certification Summary

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

Job ID: 400-177218-1
 SDG: Gorgas Ash Pond 1241

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	10-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-8	9/24/2019 17:08	Conductivity	110.29	uS/cm
GS-AP-MW-8	9/24/2019 17:08	DO	2.53	mg/L
GS-AP-MW-8	9/24/2019 17:08	Depth to Water Detail	47.72	ft
GS-AP-MW-8	9/24/2019 17:08	Oxidation Reduction Potention	22.12	mv
GS-AP-MW-8	9/24/2019 17:08	pH	5.62	pH
GS-AP-MW-8	9/24/2019 17:08	Temperature	20.21	C
GS-AP-MW-8	9/24/2019 17:08	Turbidity	20.3	NTU
GS-AP-MW-8	9/24/2019 17:13	Conductivity	109.01	uS/cm
GS-AP-MW-8	9/24/2019 17:13	DO	2.57	mg/L
GS-AP-MW-8	9/24/2019 17:13	Depth to Water Detail	48.08	ft
GS-AP-MW-8	9/24/2019 17:13	Oxidation Reduction Potention	50.76	mv
GS-AP-MW-8	9/24/2019 17:13	pH	5.36	pH
GS-AP-MW-8	9/24/2019 17:13	Temperature	19.92	C
GS-AP-MW-8	9/24/2019 17:13	Turbidity	27.3	NTU
GS-AP-MW-8	9/24/2019 17:18	Conductivity	109.21	uS/cm
GS-AP-MW-8	9/24/2019 17:18	DO	2.51	mg/L
GS-AP-MW-8	9/24/2019 17:18	Depth to Water Detail	48.33	ft
GS-AP-MW-8	9/24/2019 17:18	Oxidation Reduction Potention	69.13	mv
GS-AP-MW-8	9/24/2019 17:18	pH	5.21	pH
GS-AP-MW-8	9/24/2019 17:18	Temperature	20.04	C
GS-AP-MW-8	9/24/2019 17:18	Turbidity	18.6	NTU
GS-AP-MW-8	9/24/2019 17:23	Conductivity	107.61	uS/cm
GS-AP-MW-8	9/24/2019 17:23	DO	2.47	mg/L
GS-AP-MW-8	9/24/2019 17:23	Depth to Water Detail	48.51	ft
GS-AP-MW-8	9/24/2019 17:23	Oxidation Reduction Potention	77.97	mv
GS-AP-MW-8	9/24/2019 17:23	pH	5.15	pH
GS-AP-MW-8	9/24/2019 17:23	Temperature	19.84	C
GS-AP-MW-8	9/24/2019 17:23	Turbidity	12.2	NTU
GS-AP-MW-8	9/24/2019 17:28	Conductivity	106.82	uS/cm
GS-AP-MW-8	9/24/2019 17:28	DO	2.41	mg/L
GS-AP-MW-8	9/24/2019 17:28	Depth to Water Detail	48.7	ft
GS-AP-MW-8	9/24/2019 17:28	Oxidation Reduction Potention	83.08	mv
GS-AP-MW-8	9/24/2019 17:28	pH	5.14	pH
GS-AP-MW-8	9/24/2019 17:28	Temperature	19.84	C
GS-AP-MW-8	9/24/2019 17:28	Turbidity	10.21	NTU
GS-AP-MW-8	9/24/2019 17:33	Conductivity	107.87	uS/cm
GS-AP-MW-8	9/24/2019 17:33	DO	2.27	mg/L
GS-AP-MW-8	9/24/2019 17:33	Depth to Water Detail	48.91	ft
GS-AP-MW-8	9/24/2019 17:33	Oxidation Reduction Potention	85.97	mv
GS-AP-MW-8	9/24/2019 17:33	pH	5.15	pH
GS-AP-MW-8	9/24/2019 17:33	Temperature	20.03	C
GS-AP-MW-8	9/24/2019 17:33	Turbidity	8.73	NTU
GS-AP-MW-8	9/24/2019 17:38	Conductivity	111.03	uS/cm
GS-AP-MW-8	9/24/2019 17:38	DO	2.01	mg/L
GS-AP-MW-8	9/24/2019 17:38	Depth to Water Detail	49.12	ft
GS-AP-MW-8	9/24/2019 17:38	Oxidation Reduction Potention	87.39	mv

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-8	9/24/2019 17:38	pH	5.19	pH
GS-AP-MW-8	9/24/2019 17:38	Temperature	19.89	C
GS-AP-MW-8	9/24/2019 17:38	Turbidity	4.57	NTU
GS-AP-MW-8	9/24/2019 17:43	Conductivity	118.51	uS/cm
GS-AP-MW-8	9/24/2019 17:43	DO	1.69	mg/L
GS-AP-MW-8	9/24/2019 17:43	Depth to Water Detail	49.25	ft
GS-AP-MW-8	9/24/2019 17:43	Oxidation Reduction Potention	87.4	mv
GS-AP-MW-8	9/24/2019 17:43	pH	5.22	pH
GS-AP-MW-8	9/24/2019 17:43	Temperature	20.05	C
GS-AP-MW-8	9/24/2019 17:43	Turbidity	2.89	NTU
GS-AP-MW-8	9/24/2019 17:48	Conductivity	122.5	uS/cm
GS-AP-MW-8	9/24/2019 17:48	DO	1.59	mg/L
GS-AP-MW-8	9/24/2019 17:48	Depth to Water Detail	49.4	ft
GS-AP-MW-8	9/24/2019 17:48	Oxidation Reduction Potention	86.59	mv
GS-AP-MW-8	9/24/2019 17:48	pH	5.25	pH
GS-AP-MW-8	9/24/2019 17:48	Temperature	19.88	C
GS-AP-MW-8	9/24/2019 17:48	Turbidity	2.97	NTU
GS-AP-MW-8	9/24/2019 17:53	Conductivity	123.84	uS/cm
GS-AP-MW-8	9/24/2019 17:53	DO	1.57	mg/L
GS-AP-MW-8	9/24/2019 17:53	Depth to Water Detail	49.54	ft
GS-AP-MW-8	9/24/2019 17:53	Oxidation Reduction Potention	86.37	mv
GS-AP-MW-8	9/24/2019 17:53	pH	5.26	pH
GS-AP-MW-8	9/24/2019 17:53	Temperature	19.65	C
GS-AP-MW-8	9/24/2019 17:53	Turbidity	2.91	NTU
GS-AP-MW-8	9/24/2019 17:58	Conductivity	125.57	uS/cm
GS-AP-MW-8	9/24/2019 17:58	DO	1.54	mg/L
GS-AP-MW-8	9/24/2019 17:58	Depth to Water Detail	49.69	ft
GS-AP-MW-8	9/24/2019 17:58	Oxidation Reduction Potention	86.36	mv
GS-AP-MW-8	9/24/2019 17:58	pH	5.27	pH
GS-AP-MW-8	9/24/2019 17:58	Temperature	19.6	C
GS-AP-MW-8	9/24/2019 17:58	Turbidity	2.89	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	9/24/2019 11:02	Conductivity	571.97	uS/cm
GS-AP-MW-18	9/24/2019 11:02	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:02	Depth to Water Detail	56.74	ft
GS-AP-MW-18	9/24/2019 11:02	Oxidation Reduction Potention	63.15	mv
GS-AP-MW-18	9/24/2019 11:02	pH	7.34	pH
GS-AP-MW-18	9/24/2019 11:02	Temperature	17.39	C
GS-AP-MW-18	9/24/2019 11:02	Turbidity	2.13	NTU
GS-AP-MW-18	9/24/2019 11:07	Conductivity	569.38	uS/cm
GS-AP-MW-18	9/24/2019 11:07	DO	0.11	mg/L
GS-AP-MW-18	9/24/2019 11:07	Depth to Water Detail	58.22	ft
GS-AP-MW-18	9/24/2019 11:07	Oxidation Reduction Potention	55.77	mv
GS-AP-MW-18	9/24/2019 11:07	pH	7.37	pH
GS-AP-MW-18	9/24/2019 11:07	Temperature	17.58	C
GS-AP-MW-18	9/24/2019 11:07	Turbidity	19.3	NTU
GS-AP-MW-18	9/24/2019 11:12	Conductivity	568.9	uS/cm
GS-AP-MW-18	9/24/2019 11:12	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:12	Depth to Water Detail	58.53	ft
GS-AP-MW-18	9/24/2019 11:12	Oxidation Reduction Potention	53.11	mv
GS-AP-MW-18	9/24/2019 11:12	pH	7.35	pH
GS-AP-MW-18	9/24/2019 11:12	Temperature	17.64	C
GS-AP-MW-18	9/24/2019 11:12	Turbidity	20	NTU
GS-AP-MW-18	9/24/2019 11:17	Conductivity	569.16	uS/cm
GS-AP-MW-18	9/24/2019 11:17	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:17	Depth to Water Detail	58.34	ft
GS-AP-MW-18	9/24/2019 11:17	Oxidation Reduction Potention	49.88	mv
GS-AP-MW-18	9/24/2019 11:17	pH	7.35	pH
GS-AP-MW-18	9/24/2019 11:17	Temperature	17.58	C
GS-AP-MW-18	9/24/2019 11:17	Turbidity	20.08	NTU
GS-AP-MW-18	9/24/2019 11:22	Conductivity	567.32	uS/cm
GS-AP-MW-18	9/24/2019 11:22	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:22	Depth to Water Detail	58.76	ft
GS-AP-MW-18	9/24/2019 11:22	Oxidation Reduction Potention	43.04	mv
GS-AP-MW-18	9/24/2019 11:22	pH	7.41	pH
GS-AP-MW-18	9/24/2019 11:22	Temperature	17.64	C
GS-AP-MW-18	9/24/2019 11:22	Turbidity	23	NTU
GS-AP-MW-18	9/24/2019 11:27	Conductivity	569.84	uS/cm
GS-AP-MW-18	9/24/2019 11:27	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:27	Depth to Water Detail	58.83	ft
GS-AP-MW-18	9/24/2019 11:27	Oxidation Reduction Potention	36.95	mv
GS-AP-MW-18	9/24/2019 11:27	pH	7.45	pH
GS-AP-MW-18	9/24/2019 11:27	Temperature	17.6	C
GS-AP-MW-18	9/24/2019 11:27	Turbidity	12.8	NTU
GS-AP-MW-18	9/24/2019 11:32	Conductivity	569.35	uS/cm
GS-AP-MW-18	9/24/2019 11:32	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:32	Depth to Water Detail	58.91	ft
GS-AP-MW-18	9/24/2019 11:32	Oxidation Reduction Potention	30.99	mv

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-18	9/24/2019 11:32	pH	7.49	pH
GS-AP-MW-18	9/24/2019 11:32	Temperature	17.63	C
GS-AP-MW-18	9/24/2019 11:32	Turbidity	12.9	NTU
GS-AP-MW-18	9/24/2019 11:37	Conductivity	569.46	uS/cm
GS-AP-MW-18	9/24/2019 11:37	DO	0.11	mg/L
GS-AP-MW-18	9/24/2019 11:37	Depth to Water Detail	59.04	ft
GS-AP-MW-18	9/24/2019 11:37	Oxidation Reduction Potention	25.31	mv
GS-AP-MW-18	9/24/2019 11:37	pH	7.51	pH
GS-AP-MW-18	9/24/2019 11:37	Temperature	17.63	C
GS-AP-MW-18	9/24/2019 11:37	Turbidity	11.5	NTU
GS-AP-MW-18	9/24/2019 11:42	Conductivity	570.59	uS/cm
GS-AP-MW-18	9/24/2019 11:42	DO	0.12	mg/L
GS-AP-MW-18	9/24/2019 11:42	Depth to Water Detail	59.14	ft
GS-AP-MW-18	9/24/2019 11:42	Oxidation Reduction Potention	22.63	mv
GS-AP-MW-18	9/24/2019 11:42	pH	7.49	pH
GS-AP-MW-18	9/24/2019 11:42	Temperature	17.51	C
GS-AP-MW-18	9/24/2019 11:42	Turbidity	9.64	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	9/23/2019 14:51	Conductivity	585.2	uS/cm
GS-AP-MW-26H	9/23/2019 14:51	DO	0.43	mg/L
GS-AP-MW-26H	9/23/2019 14:51	Depth to Water Detail	99.43	ft
GS-AP-MW-26H	9/23/2019 14:51	Oxidation Reduction Potention	51.88	mv
GS-AP-MW-26H	9/23/2019 14:51	pH	7.2	pH
GS-AP-MW-26H	9/23/2019 14:51	Temperature	22.67	C
GS-AP-MW-26H	9/23/2019 14:51	Turbidity	46.1	NTU
GS-AP-MW-26H	9/23/2019 14:56	Conductivity	524.13	uS/cm
GS-AP-MW-26H	9/23/2019 14:56	DO	0.55	mg/L
GS-AP-MW-26H	9/23/2019 14:56	Depth to Water Detail	100.11	ft
GS-AP-MW-26H	9/23/2019 14:56	Oxidation Reduction Potention	31.46	mv
GS-AP-MW-26H	9/23/2019 14:56	pH	7.18	pH
GS-AP-MW-26H	9/23/2019 14:56	Temperature	23.57	C
GS-AP-MW-26H	9/23/2019 14:56	Turbidity	41.4	NTU
GS-AP-MW-26H	9/23/2019 15:01	Conductivity	494.63	uS/cm
GS-AP-MW-26H	9/23/2019 15:01	DO	0.66	mg/L
GS-AP-MW-26H	9/23/2019 15:01	Depth to Water Detail	101.28	ft
GS-AP-MW-26H	9/23/2019 15:01	Oxidation Reduction Potention	17.7	mv
GS-AP-MW-26H	9/23/2019 15:01	pH	7.22	pH
GS-AP-MW-26H	9/23/2019 15:01	Temperature	23.25	C
GS-AP-MW-26H	9/23/2019 15:01	Turbidity	34.1	NTU
GS-AP-MW-26H	9/23/2019 15:06	Conductivity	483.09	uS/cm
GS-AP-MW-26H	9/23/2019 15:06	DO	0.7	mg/L
GS-AP-MW-26H	9/23/2019 15:06	Depth to Water Detail	101.43	ft
GS-AP-MW-26H	9/23/2019 15:06	Oxidation Reduction Potention	10.08	mv
GS-AP-MW-26H	9/23/2019 15:06	pH	7.23	pH
GS-AP-MW-26H	9/23/2019 15:06	Temperature	23.4	C
GS-AP-MW-26H	9/23/2019 15:06	Turbidity	34.3	NTU
GS-AP-MW-26H	9/23/2019 15:11	Conductivity	479.74	uS/cm
GS-AP-MW-26H	9/23/2019 15:11	DO	0.76	mg/L
GS-AP-MW-26H	9/23/2019 15:11	Depth to Water Detail	101.71	ft
GS-AP-MW-26H	9/23/2019 15:11	Oxidation Reduction Potention	3.42	mv
GS-AP-MW-26H	9/23/2019 15:11	pH	7.22	pH
GS-AP-MW-26H	9/23/2019 15:11	Temperature	23.32	C
GS-AP-MW-26H	9/23/2019 15:11	Turbidity	39.4	NTU
GS-AP-MW-26H	9/23/2019 15:16	Conductivity	473.52	uS/cm
GS-AP-MW-26H	9/23/2019 15:16	DO	0.79	mg/L
GS-AP-MW-26H	9/23/2019 15:16	Depth to Water Detail	102.04	ft
GS-AP-MW-26H	9/23/2019 15:16	Oxidation Reduction Potention	-7.62	mv
GS-AP-MW-26H	9/23/2019 15:16	pH	7.22	pH
GS-AP-MW-26H	9/23/2019 15:16	Temperature	23.26	C
GS-AP-MW-26H	9/23/2019 15:16	Turbidity	43.9	NTU
GS-AP-MW-26H	9/23/2019 15:21	Conductivity	471.23	uS/cm
GS-AP-MW-26H	9/23/2019 15:21	DO	0.88	mg/L
GS-AP-MW-26H	9/23/2019 15:21	Depth to Water Detail	102.56	ft
GS-AP-MW-26H	9/23/2019 15:21	Oxidation Reduction Potention	-20.47	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	9/23/2019 15:21	pH	7.23	pH
GS-AP-MW-26H	9/23/2019 15:21	Temperature	22.95	C
GS-AP-MW-26H	9/23/2019 15:21	Turbidity	50.7	NTU
GS-AP-MW-26H	9/23/2019 15:26	Conductivity	475.69	uS/cm
GS-AP-MW-26H	9/23/2019 15:26	DO	0.91	mg/L
GS-AP-MW-26H	9/23/2019 15:26	Depth to Water Detail	102.87	ft
GS-AP-MW-26H	9/23/2019 15:26	Oxidation Reduction Potention	-33.76	mv
GS-AP-MW-26H	9/23/2019 15:26	pH	7.24	pH
GS-AP-MW-26H	9/23/2019 15:26	Temperature	23.47	C
GS-AP-MW-26H	9/23/2019 15:26	Turbidity	54.4	NTU
GS-AP-MW-26H	9/23/2019 15:31	Conductivity	476.06	uS/cm
GS-AP-MW-26H	9/23/2019 15:31	DO	0.98	mg/L
GS-AP-MW-26H	9/23/2019 15:31	Depth to Water Detail	102.94	ft
GS-AP-MW-26H	9/23/2019 15:31	Oxidation Reduction Potention	-44.15	mv
GS-AP-MW-26H	9/23/2019 15:31	pH	7.24	pH
GS-AP-MW-26H	9/23/2019 15:31	Temperature	23.6	C
GS-AP-MW-26H	9/23/2019 15:31	Turbidity	54.1	NTU
GS-AP-MW-26H	9/23/2019 15:36	Conductivity	476.92	uS/cm
GS-AP-MW-26H	9/23/2019 15:36	DO	0.99	mg/L
GS-AP-MW-26H	9/23/2019 15:36	Depth to Water Detail	103.52	ft
GS-AP-MW-26H	9/23/2019 15:36	Oxidation Reduction Potention	-50.2	mv
GS-AP-MW-26H	9/23/2019 15:36	pH	7.22	pH
GS-AP-MW-26H	9/23/2019 15:36	Temperature	23.49	C
GS-AP-MW-26H	9/23/2019 15:36	Turbidity	55.8	NTU
GS-AP-MW-26H	9/23/2019 15:41	Conductivity	474.23	uS/cm
GS-AP-MW-26H	9/23/2019 15:41	DO	1	mg/L
GS-AP-MW-26H	9/23/2019 15:41	Depth to Water Detail	103.98	ft
GS-AP-MW-26H	9/23/2019 15:41	Oxidation Reduction Potention	-57.23	mv
GS-AP-MW-26H	9/23/2019 15:41	pH	7.25	pH
GS-AP-MW-26H	9/23/2019 15:41	Temperature	22.81	C
GS-AP-MW-26H	9/23/2019 15:41	Turbidity	52.1	NTU
GS-AP-MW-26H	9/23/2019 15:46	Conductivity	474.57	uS/cm
GS-AP-MW-26H	9/23/2019 15:46	DO	1.09	mg/L
GS-AP-MW-26H	9/23/2019 15:46	Depth to Water Detail	104.04	ft
GS-AP-MW-26H	9/23/2019 15:46	Oxidation Reduction Potention	-61.52	mv
GS-AP-MW-26H	9/23/2019 15:46	pH	7.23	pH
GS-AP-MW-26H	9/23/2019 15:46	Temperature	23.04	C
GS-AP-MW-26H	9/23/2019 15:46	Turbidity	48.7	NTU
GS-AP-MW-26H	9/23/2019 15:51	Conductivity	473.13	uS/cm
GS-AP-MW-26H	9/23/2019 15:51	DO	1.05	mg/L
GS-AP-MW-26H	9/23/2019 15:51	Depth to Water Detail	104.29	ft
GS-AP-MW-26H	9/23/2019 15:51	Oxidation Reduction Potention	-66.37	mv
GS-AP-MW-26H	9/23/2019 15:51	pH	7.25	pH
GS-AP-MW-26H	9/23/2019 15:51	Temperature	22.44	C
GS-AP-MW-26H	9/23/2019 15:51	Turbidity	49.4	NTU
GS-AP-MW-26H	9/23/2019 15:56	Conductivity	474.26	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	9/23/2019 15:56	DO	1.11	mg/L
GS-AP-MW-26H	9/23/2019 15:56	Depth to Water Detail	104.45	ft
GS-AP-MW-26H	9/23/2019 15:56	Oxidation Reduction Potention	-69.67	mv
GS-AP-MW-26H	9/23/2019 15:56	pH	7.23	pH
GS-AP-MW-26H	9/23/2019 15:56	Temperature	22.4	C
GS-AP-MW-26H	9/23/2019 15:56	Turbidity	46.3	NTU
GS-AP-MW-26H	9/23/2019 16:01	Conductivity	470.16	uS/cm
GS-AP-MW-26H	9/23/2019 16:01	DO	1.12	mg/L
GS-AP-MW-26H	9/23/2019 16:01	Depth to Water Detail	104.8	ft
GS-AP-MW-26H	9/23/2019 16:01	Oxidation Reduction Potention	-70.58	mv
GS-AP-MW-26H	9/23/2019 16:01	pH	7.2	pH
GS-AP-MW-26H	9/23/2019 16:01	Temperature	22.06	C
GS-AP-MW-26H	9/23/2019 16:01	Turbidity	46.2	NTU
GS-AP-MW-26H	9/23/2019 16:06	Conductivity	472.75	uS/cm
GS-AP-MW-26H	9/23/2019 16:06	DO	1.14	mg/L
GS-AP-MW-26H	9/23/2019 16:06	Depth to Water Detail	104.96	ft
GS-AP-MW-26H	9/23/2019 16:06	Oxidation Reduction Potention	-77.12	mv
GS-AP-MW-26H	9/23/2019 16:06	pH	7.24	pH
GS-AP-MW-26H	9/23/2019 16:06	Temperature	22.21	C
GS-AP-MW-26H	9/23/2019 16:06	Turbidity	44.2	NTU
GS-AP-MW-26H	9/23/2019 16:11	Conductivity	469.35	uS/cm
GS-AP-MW-26H	9/23/2019 16:11	DO	1.13	mg/L
GS-AP-MW-26H	9/23/2019 16:11	Depth to Water Detail	105.17	ft
GS-AP-MW-26H	9/23/2019 16:11	Oxidation Reduction Potention	-79.05	mv
GS-AP-MW-26H	9/23/2019 16:11	pH	7.23	pH
GS-AP-MW-26H	9/23/2019 16:11	Temperature	22.36	C
GS-AP-MW-26H	9/23/2019 16:11	Turbidity	44.5	NTU
GS-AP-MW-26H	9/23/2019 16:16	Conductivity	469.07	uS/cm
GS-AP-MW-26H	9/23/2019 16:16	DO	1.18	mg/L
GS-AP-MW-26H	9/23/2019 16:16	Depth to Water Detail	105.3	ft
GS-AP-MW-26H	9/23/2019 16:16	Oxidation Reduction Potention	-81.8	mv
GS-AP-MW-26H	9/23/2019 16:16	pH	7.25	pH
GS-AP-MW-26H	9/23/2019 16:16	Temperature	22.19	C
GS-AP-MW-26H	9/23/2019 16:16	Turbidity	48.6	NTU
GS-AP-MW-26H	9/23/2019 16:21	Conductivity	470.28	uS/cm
GS-AP-MW-26H	9/23/2019 16:21	DO	1.2	mg/L
GS-AP-MW-26H	9/23/2019 16:21	Depth to Water Detail	105.46	ft
GS-AP-MW-26H	9/23/2019 16:21	Oxidation Reduction Potention	-82.8	mv
GS-AP-MW-26H	9/23/2019 16:21	pH	7.24	pH
GS-AP-MW-26H	9/23/2019 16:21	Temperature	22.03	C
GS-AP-MW-26H	9/23/2019 16:21	Turbidity	43.7	NTU
GS-AP-MW-26H	9/23/2019 16:26	Conductivity	468.52	uS/cm
GS-AP-MW-26H	9/23/2019 16:26	DO	1.13	mg/L
GS-AP-MW-26H	9/23/2019 16:26	Depth to Water Detail	105.74	ft
GS-AP-MW-26H	9/23/2019 16:26	Oxidation Reduction Potention	-81.6	mv
GS-AP-MW-26H	9/23/2019 16:26	pH	7.2	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-26H	9/23/2019 16:26	Temperature	21.67	C
GS-AP-MW-26H	9/23/2019 16:26	Turbidity	44.5	NTU
GS-AP-MW-26H	9/23/2019 16:31	Conductivity	468.87	uS/cm
GS-AP-MW-26H	9/23/2019 16:31	DO	1.19	mg/L
GS-AP-MW-26H	9/23/2019 16:31	Depth to Water Detail	105.83	ft
GS-AP-MW-26H	9/23/2019 16:31	Oxidation Reduction Potention	-85.71	mv
GS-AP-MW-26H	9/23/2019 16:31	pH	7.25	pH
GS-AP-MW-26H	9/23/2019 16:31	Temperature	21.92	C
GS-AP-MW-26H	9/23/2019 16:31	Turbidity	49	NTU
GS-AP-MW-26H	9/23/2019 16:36	Conductivity	469.63	uS/cm
GS-AP-MW-26H	9/23/2019 16:36	DO	1.25	mg/L
GS-AP-MW-26H	9/23/2019 16:36	Depth to Water Detail	105.94	ft
GS-AP-MW-26H	9/23/2019 16:36	Oxidation Reduction Potention	-85.84	mv
GS-AP-MW-26H	9/23/2019 16:36	pH	7.24	pH
GS-AP-MW-26H	9/23/2019 16:36	Temperature	22.01	C
GS-AP-MW-26H	9/23/2019 16:36	Turbidity	48.4	NTU
GS-AP-MW-26H	9/23/2019 16:41	Conductivity	469.42	uS/cm
GS-AP-MW-26H	9/23/2019 16:41	DO	1.19	mg/L
GS-AP-MW-26H	9/23/2019 16:41	Depth to Water Detail	105.96	ft
GS-AP-MW-26H	9/23/2019 16:41	Oxidation Reduction Potention	-85.04	mv
GS-AP-MW-26H	9/23/2019 16:41	pH	7.21	pH
GS-AP-MW-26H	9/23/2019 16:41	Temperature	22.35	C
GS-AP-MW-26H	9/23/2019 16:41	Turbidity	46.6	NTU
GS-AP-MW-26H	9/23/2019 16:46	Conductivity	472.09	uS/cm
GS-AP-MW-26H	9/23/2019 16:46	DO	1.17	mg/L
GS-AP-MW-26H	9/23/2019 16:46	Depth to Water Detail	106.04	ft
GS-AP-MW-26H	9/23/2019 16:46	Oxidation Reduction Potention	-88.59	mv
GS-AP-MW-26H	9/23/2019 16:46	pH	7.25	pH
GS-AP-MW-26H	9/23/2019 16:46	Temperature	22.44	C
GS-AP-MW-26H	9/23/2019 16:46	Turbidity	45.2	NTU
GS-AP-MW-26H	9/23/2019 16:51	Conductivity	469.38	uS/cm
GS-AP-MW-26H	9/23/2019 16:51	DO	1.26	mg/L
GS-AP-MW-26H	9/23/2019 16:51	Depth to Water Detail	106.14	ft
GS-AP-MW-26H	9/23/2019 16:51	Oxidation Reduction Potention	-87.98	mv
GS-AP-MW-26H	9/23/2019 16:51	pH	7.24	pH
GS-AP-MW-26H	9/23/2019 16:51	Temperature	22.17	C
GS-AP-MW-26H	9/23/2019 16:51	Turbidity	43.5	NTU
GS-AP-MW-26H	9/23/2019 16:56	Conductivity	468.15	uS/cm
GS-AP-MW-26H	9/23/2019 16:56	DO	1.2	mg/L
GS-AP-MW-26H	9/23/2019 16:56	Depth to Water Detail	106.16	ft
GS-AP-MW-26H	9/23/2019 16:56	Oxidation Reduction Potention	-88.6	mv
GS-AP-MW-26H	9/23/2019 16:56	pH	7.25	pH
GS-AP-MW-26H	9/23/2019 16:56	Temperature	22.21	C
GS-AP-MW-26H	9/23/2019 16:56	Turbidity	45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	9/24/2019 15:36	Conductivity	542.32	uS/cm
GS-AP-MW-7	9/24/2019 15:36	DO	0.96	mg/L
GS-AP-MW-7	9/24/2019 15:36	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 15:36	Oxidation Reduction Potention	-193.68	mv
GS-AP-MW-7	9/24/2019 15:36	pH	7.56	pH
GS-AP-MW-7	9/24/2019 15:36	Temperature	24.54	C
GS-AP-MW-7	9/24/2019 15:36	Turbidity	12.5	NTU
GS-AP-MW-7	9/24/2019 15:41	Conductivity	538.62	uS/cm
GS-AP-MW-7	9/24/2019 15:41	DO	0.81	mg/L
GS-AP-MW-7	9/24/2019 15:41	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 15:41	Oxidation Reduction Potention	-168.59	mv
GS-AP-MW-7	9/24/2019 15:41	pH	7.37	pH
GS-AP-MW-7	9/24/2019 15:41	Temperature	24.13	C
GS-AP-MW-7	9/24/2019 15:41	Turbidity	8.46	NTU
GS-AP-MW-7	9/24/2019 15:46	Conductivity	532.62	uS/cm
GS-AP-MW-7	9/24/2019 15:46	DO	0.76	mg/L
GS-AP-MW-7	9/24/2019 15:46	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 15:46	Oxidation Reduction Potention	-153.39	mv
GS-AP-MW-7	9/24/2019 15:46	pH	7.25	pH
GS-AP-MW-7	9/24/2019 15:46	Temperature	23.59	C
GS-AP-MW-7	9/24/2019 15:46	Turbidity	6.47	NTU
GS-AP-MW-7	9/24/2019 15:51	Conductivity	540.44	uS/cm
GS-AP-MW-7	9/24/2019 15:51	DO	0.71	mg/L
GS-AP-MW-7	9/24/2019 15:51	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 15:51	Oxidation Reduction Potention	-148.91	mv
GS-AP-MW-7	9/24/2019 15:51	pH	7.25	pH
GS-AP-MW-7	9/24/2019 15:51	Temperature	23.97	C
GS-AP-MW-7	9/24/2019 15:51	Turbidity	12.2	NTU
GS-AP-MW-7	9/24/2019 15:56	Conductivity	536.36	uS/cm
GS-AP-MW-7	9/24/2019 15:56	DO	0.68	mg/L
GS-AP-MW-7	9/24/2019 15:56	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 15:56	Oxidation Reduction Potention	-147.74	mv
GS-AP-MW-7	9/24/2019 15:56	pH	7.29	pH
GS-AP-MW-7	9/24/2019 15:56	Temperature	23.57	C
GS-AP-MW-7	9/24/2019 15:56	Turbidity	16.5	NTU
GS-AP-MW-7	9/24/2019 16:01	Conductivity	535.23	uS/cm
GS-AP-MW-7	9/24/2019 16:01	DO	0.62	mg/L
GS-AP-MW-7	9/24/2019 16:01	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 16:01	Oxidation Reduction Potention	-147.26	mv
GS-AP-MW-7	9/24/2019 16:01	pH	7.31	pH
GS-AP-MW-7	9/24/2019 16:01	Temperature	23.58	C
GS-AP-MW-7	9/24/2019 16:01	Turbidity	19.8	NTU
GS-AP-MW-7	9/24/2019 16:06	Conductivity	536.87	uS/cm
GS-AP-MW-7	9/24/2019 16:06	DO	0.61	mg/L
GS-AP-MW-7	9/24/2019 16:06	Depth to Water Detail	9.81	ft
GS-AP-MW-7	9/24/2019 16:06	Oxidation Reduction Potention	-147.64	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	9/24/2019 16:06	pH	7.34	pH
GS-AP-MW-7	9/24/2019 16:06	Temperature	23.53	C
GS-AP-MW-7	9/24/2019 16:06	Turbidity	22.9	NTU
GS-AP-MW-7	9/24/2019 16:11	Conductivity	537.39	uS/cm
GS-AP-MW-7	9/24/2019 16:11	DO	0.65	mg/L
GS-AP-MW-7	9/24/2019 16:11	Depth to Water Detail	9.86	ft
GS-AP-MW-7	9/24/2019 16:11	Oxidation Reduction Potention	-146.12	mv
GS-AP-MW-7	9/24/2019 16:11	pH	7.33	pH
GS-AP-MW-7	9/24/2019 16:11	Temperature	23.18	C
GS-AP-MW-7	9/24/2019 16:11	Turbidity	28.8	NTU
GS-AP-MW-7	9/24/2019 16:16	Conductivity	535.18	uS/cm
GS-AP-MW-7	9/24/2019 16:16	DO	0.6	mg/L
GS-AP-MW-7	9/24/2019 16:16	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:16	Oxidation Reduction Potention	-143.94	mv
GS-AP-MW-7	9/24/2019 16:16	pH	7.31	pH
GS-AP-MW-7	9/24/2019 16:16	Temperature	23.2	C
GS-AP-MW-7	9/24/2019 16:16	Turbidity	26.2	NTU
GS-AP-MW-7	9/24/2019 16:21	Conductivity	534.74	uS/cm
GS-AP-MW-7	9/24/2019 16:21	DO	0.61	mg/L
GS-AP-MW-7	9/24/2019 16:21	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:21	Oxidation Reduction Potention	-142.95	mv
GS-AP-MW-7	9/24/2019 16:21	pH	7.29	pH
GS-AP-MW-7	9/24/2019 16:21	Temperature	23.08	C
GS-AP-MW-7	9/24/2019 16:21	Turbidity	27.6	NTU
GS-AP-MW-7	9/24/2019 16:26	Conductivity	534.8	uS/cm
GS-AP-MW-7	9/24/2019 16:26	DO	0.63	mg/L
GS-AP-MW-7	9/24/2019 16:26	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:26	Oxidation Reduction Potention	-141.77	mv
GS-AP-MW-7	9/24/2019 16:26	pH	7.28	pH
GS-AP-MW-7	9/24/2019 16:26	Temperature	22.85	C
GS-AP-MW-7	9/24/2019 16:26	Turbidity	27.9	NTU
GS-AP-MW-7	9/24/2019 16:31	Conductivity	535.43	uS/cm
GS-AP-MW-7	9/24/2019 16:31	DO	0.62	mg/L
GS-AP-MW-7	9/24/2019 16:31	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:31	Oxidation Reduction Potention	-139.44	mv
GS-AP-MW-7	9/24/2019 16:31	pH	7.27	pH
GS-AP-MW-7	9/24/2019 16:31	Temperature	23.05	C
GS-AP-MW-7	9/24/2019 16:31	Turbidity	33.7	NTU
GS-AP-MW-7	9/24/2019 16:36	Conductivity	534.13	uS/cm
GS-AP-MW-7	9/24/2019 16:36	DO	0.63	mg/L
GS-AP-MW-7	9/24/2019 16:36	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:36	Oxidation Reduction Potention	-138.23	mv
GS-AP-MW-7	9/24/2019 16:36	pH	7.26	pH
GS-AP-MW-7	9/24/2019 16:36	Temperature	22.63	C
GS-AP-MW-7	9/24/2019 16:36	Turbidity	35.8	NTU
GS-AP-MW-7	9/24/2019 16:41	Conductivity	532.42	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	9/24/2019 16:41	DO	0.63	mg/L
GS-AP-MW-7	9/24/2019 16:41	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:41	Oxidation Reduction Potention	-138.42	mv
GS-AP-MW-7	9/24/2019 16:41	pH	7.26	pH
GS-AP-MW-7	9/24/2019 16:41	Temperature	21.98	C
GS-AP-MW-7	9/24/2019 16:41	Turbidity	34.1	NTU
GS-AP-MW-7	9/24/2019 16:46	Conductivity	533.17	uS/cm
GS-AP-MW-7	9/24/2019 16:46	DO	0.63	mg/L
GS-AP-MW-7	9/24/2019 16:46	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:46	Oxidation Reduction Potention	-138.4	mv
GS-AP-MW-7	9/24/2019 16:46	pH	7.27	pH
GS-AP-MW-7	9/24/2019 16:46	Temperature	22.35	C
GS-AP-MW-7	9/24/2019 16:46	Turbidity	33.2	NTU
GS-AP-MW-7	9/24/2019 16:51	Conductivity	533.25	uS/cm
GS-AP-MW-7	9/24/2019 16:51	DO	0.64	mg/L
GS-AP-MW-7	9/24/2019 16:51	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:51	Oxidation Reduction Potention	-139.48	mv
GS-AP-MW-7	9/24/2019 16:51	pH	7.27	pH
GS-AP-MW-7	9/24/2019 16:51	Temperature	21.98	C
GS-AP-MW-7	9/24/2019 16:51	Turbidity	36.1	NTU
GS-AP-MW-7	9/24/2019 16:56	Conductivity	531.11	uS/cm
GS-AP-MW-7	9/24/2019 16:56	DO	0.66	mg/L
GS-AP-MW-7	9/24/2019 16:56	Depth to Water Detail	9.89	ft
GS-AP-MW-7	9/24/2019 16:56	Oxidation Reduction Potention	-138.96	mv
GS-AP-MW-7	9/24/2019 16:56	pH	7.28	pH
GS-AP-MW-7	9/24/2019 16:56	Temperature	21.71	C
GS-AP-MW-7	9/24/2019 16:56	Turbidity	36.4	NTU
GS-AP-MW-7	9/24/2019 17:01	Conductivity	529.21	uS/cm
GS-AP-MW-7	9/24/2019 17:01	DO	0.26	mg/L
GS-AP-MW-7	9/24/2019 17:01	Depth to Water Detail	10.55	ft
GS-AP-MW-7	9/24/2019 17:01	Oxidation Reduction Potention	-148.54	mv
GS-AP-MW-7	9/24/2019 17:01	pH	7.32	pH
GS-AP-MW-7	9/24/2019 17:01	Temperature	18.64	C
GS-AP-MW-7	9/24/2019 17:01	Turbidity	39.6	NTU
GS-AP-MW-7	9/24/2019 17:06	Conductivity	528.79	uS/cm
GS-AP-MW-7	9/24/2019 17:06	DO	0.24	mg/L
GS-AP-MW-7	9/24/2019 17:06	Depth to Water Detail	10.66	ft
GS-AP-MW-7	9/24/2019 17:06	Oxidation Reduction Potention	-157.43	mv
GS-AP-MW-7	9/24/2019 17:06	pH	7.39	pH
GS-AP-MW-7	9/24/2019 17:06	Temperature	18.33	C
GS-AP-MW-7	9/24/2019 17:06	Turbidity	35.9	NTU
GS-AP-MW-7	9/24/2019 17:11	Conductivity	529.17	uS/cm
GS-AP-MW-7	9/24/2019 17:11	DO	0.23	mg/L
GS-AP-MW-7	9/24/2019 17:11	Depth to Water Detail	10.66	ft
GS-AP-MW-7	9/24/2019 17:11	Oxidation Reduction Potention	-164.18	mv
GS-AP-MW-7	9/24/2019 17:11	pH	7.44	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-7	9/24/2019 17:11	Temperature	18.5	C
GS-AP-MW-7	9/24/2019 17:11	Turbidity	40.5	NTU
GS-AP-MW-7	9/24/2019 17:16	Conductivity	529.47	uS/cm
GS-AP-MW-7	9/24/2019 17:16	DO	0.23	mg/L
GS-AP-MW-7	9/24/2019 17:16	Depth to Water Detail	10.61	ft
GS-AP-MW-7	9/24/2019 17:16	Oxidation Reduction Potention	-166.51	mv
GS-AP-MW-7	9/24/2019 17:16	pH	7.46	pH
GS-AP-MW-7	9/24/2019 17:16	Temperature	18.42	C
GS-AP-MW-7	9/24/2019 17:16	Turbidity	28	NTU
GS-AP-MW-7	9/24/2019 17:21	Conductivity	529.04	uS/cm
GS-AP-MW-7	9/24/2019 17:21	DO	0.24	mg/L
GS-AP-MW-7	9/24/2019 17:21	Depth to Water Detail	10.61	ft
GS-AP-MW-7	9/24/2019 17:21	Oxidation Reduction Potention	-166.46	mv
GS-AP-MW-7	9/24/2019 17:21	pH	7.44	pH
GS-AP-MW-7	9/24/2019 17:21	Temperature	18.53	C
GS-AP-MW-7	9/24/2019 17:21	Turbidity	26.7	NTU
GS-AP-MW-7	9/24/2019 17:26	Conductivity	528.86	uS/cm
GS-AP-MW-7	9/24/2019 17:26	DO	0.23	mg/L
GS-AP-MW-7	9/24/2019 17:26	Depth to Water Detail	10.89	ft
GS-AP-MW-7	9/24/2019 17:26	Oxidation Reduction Potention	-167.43	mv
GS-AP-MW-7	9/24/2019 17:26	pH	7.44	pH
GS-AP-MW-7	9/24/2019 17:26	Temperature	18.33	C
GS-AP-MW-7	9/24/2019 17:26	Turbidity	31.1	NTU
GS-AP-MW-7	9/24/2019 17:31	Conductivity	529.15	uS/cm
GS-AP-MW-7	9/24/2019 17:31	DO	0.23	mg/L
GS-AP-MW-7	9/24/2019 17:31	Depth to Water Detail	10.89	ft
GS-AP-MW-7	9/24/2019 17:31	Oxidation Reduction Potention	-166.91	mv
GS-AP-MW-7	9/24/2019 17:31	pH	7.43	pH
GS-AP-MW-7	9/24/2019 17:31	Temperature	18.22	C
GS-AP-MW-7	9/24/2019 17:31	Turbidity	25.1	NTU
GS-AP-MW-7	9/24/2019 17:36	Conductivity	528.81	uS/cm
GS-AP-MW-7	9/24/2019 17:36	DO	0.24	mg/L
GS-AP-MW-7	9/24/2019 17:36	Depth to Water Detail	10.89	ft
GS-AP-MW-7	9/24/2019 17:36	Oxidation Reduction Potention	-166.42	mv
GS-AP-MW-7	9/24/2019 17:36	pH	7.41	pH
GS-AP-MW-7	9/24/2019 17:36	Temperature	18.34	C
GS-AP-MW-7	9/24/2019 17:36	Turbidity	26.2	NTU
GS-AP-MW-7	9/24/2019 17:41	Conductivity	528.85	uS/cm
GS-AP-MW-7	9/24/2019 17:41	DO	0.23	mg/L
GS-AP-MW-7	9/24/2019 17:41	Depth to Water Detail	10.89	ft
GS-AP-MW-7	9/24/2019 17:41	Oxidation Reduction Potention	-165.22	mv
GS-AP-MW-7	9/24/2019 17:41	pH	7.38	pH
GS-AP-MW-7	9/24/2019 17:41	Temperature	18.23	C
GS-AP-MW-7	9/24/2019 17:41	Turbidity	24.4	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12	9/25/2019 9:08	Conductivity	395.73	uS/cm
GS-AP-MW-12	9/25/2019 9:08	DO	0.24	mg/L
GS-AP-MW-12	9/25/2019 9:08	Depth to Water Detail	76.1	ft
GS-AP-MW-12	9/25/2019 9:08	Oxidation Reduction Potention	-131.5	mv
GS-AP-MW-12	9/25/2019 9:08	pH	7.38	pH
GS-AP-MW-12	9/25/2019 9:08	Temperature	18.26	C
GS-AP-MW-12	9/25/2019 9:08	Turbidity	9.09	NTU
GS-AP-MW-12	9/25/2019 9:13	Conductivity	390.61	uS/cm
GS-AP-MW-12	9/25/2019 9:13	DO	0.19	mg/L
GS-AP-MW-12	9/25/2019 9:13	Depth to Water Detail	77.98	ft
GS-AP-MW-12	9/25/2019 9:13	Oxidation Reduction Potention	-139.53	mv
GS-AP-MW-12	9/25/2019 9:13	pH	7.39	pH
GS-AP-MW-12	9/25/2019 9:13	Temperature	18.16	C
GS-AP-MW-12	9/25/2019 9:13	Turbidity	2.51	NTU
GS-AP-MW-12	9/25/2019 9:18	Conductivity	376.86	uS/cm
GS-AP-MW-12	9/25/2019 9:18	DO	0.2	mg/L
GS-AP-MW-12	9/25/2019 9:18	Depth to Water Detail	79.75	ft
GS-AP-MW-12	9/25/2019 9:18	Oxidation Reduction Potention	-142.57	mv
GS-AP-MW-12	9/25/2019 9:18	pH	7.39	pH
GS-AP-MW-12	9/25/2019 9:18	Temperature	18.01	C
GS-AP-MW-12	9/25/2019 9:18	Turbidity	2.25	NTU
GS-AP-MW-12	9/25/2019 9:23	Conductivity	374.43	uS/cm
GS-AP-MW-12	9/25/2019 9:23	DO	0.21	mg/L
GS-AP-MW-12	9/25/2019 9:23	Depth to Water Detail	81.71	ft
GS-AP-MW-12	9/25/2019 9:23	Oxidation Reduction Potention	-147.34	mv
GS-AP-MW-12	9/25/2019 9:23	pH	7.4	pH
GS-AP-MW-12	9/25/2019 9:23	Temperature	18.26	C
GS-AP-MW-12	9/25/2019 9:23	Turbidity	2.43	NTU
GS-AP-MW-12	9/25/2019 9:28	Conductivity	374.46	uS/cm
GS-AP-MW-12	9/25/2019 9:28	DO	0.21	mg/L
GS-AP-MW-12	9/25/2019 9:28	Depth to Water Detail	82.5	ft
GS-AP-MW-12	9/25/2019 9:28	Oxidation Reduction Potention	-152.31	mv
GS-AP-MW-12	9/25/2019 9:28	pH	7.43	pH
GS-AP-MW-12	9/25/2019 9:28	Temperature	18.16	C
GS-AP-MW-12	9/25/2019 9:28	Turbidity	2.83	NTU
GS-AP-MW-12	9/25/2019 9:33	Conductivity	378.11	uS/cm
GS-AP-MW-12	9/25/2019 9:33	DO	0.38	mg/L
GS-AP-MW-12	9/25/2019 9:33	Depth to Water Detail	82.45	ft
GS-AP-MW-12	9/25/2019 9:33	Oxidation Reduction Potention	-154.6	mv
GS-AP-MW-12	9/25/2019 9:33	pH	7.43	pH
GS-AP-MW-12	9/25/2019 9:33	Temperature	19.87	C
GS-AP-MW-12	9/25/2019 9:33	Turbidity	1.91	NTU
GS-AP-MW-12	9/25/2019 9:38	Conductivity	379.16	uS/cm
GS-AP-MW-12	9/25/2019 9:38	DO	0.47	mg/L
GS-AP-MW-12	9/25/2019 9:38	Depth to Water Detail	82.35	ft
GS-AP-MW-12	9/25/2019 9:38	Oxidation Reduction Potention	-152.65	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12	9/25/2019 9:38	pH	7.43	pH
GS-AP-MW-12	9/25/2019 9:38	Temperature	21.08	C
GS-AP-MW-12	9/25/2019 9:38	Turbidity	1.7	NTU
GS-AP-MW-12	9/25/2019 9:43	Conductivity	379.53	uS/cm
GS-AP-MW-12	9/25/2019 9:43	DO	0.53	mg/L
GS-AP-MW-12	9/25/2019 9:43	Depth to Water Detail	81.9	ft
GS-AP-MW-12	9/25/2019 9:43	Oxidation Reduction Potention	-150.64	mv
GS-AP-MW-12	9/25/2019 9:43	pH	7.43	pH
GS-AP-MW-12	9/25/2019 9:43	Temperature	21.3	C
GS-AP-MW-12	9/25/2019 9:43	Turbidity	0.97	NTU
GS-AP-MW-12	9/25/2019 9:48	Conductivity	381.49	uS/cm
GS-AP-MW-12	9/25/2019 9:48	DO	0.62	mg/L
GS-AP-MW-12	9/25/2019 9:48	Depth to Water Detail	81.4	ft
GS-AP-MW-12	9/25/2019 9:48	Oxidation Reduction Potention	-148.02	mv
GS-AP-MW-12	9/25/2019 9:48	pH	7.42	pH
GS-AP-MW-12	9/25/2019 9:48	Temperature	21.98	C
GS-AP-MW-12	9/25/2019 9:48	Turbidity	1.43	NTU
GS-AP-MW-12	9/25/2019 9:53	Conductivity	389.05	uS/cm
GS-AP-MW-12	9/25/2019 9:53	DO	0.77	mg/L
GS-AP-MW-12	9/25/2019 9:53	Depth to Water Detail	81.1	ft
GS-AP-MW-12	9/25/2019 9:53	Oxidation Reduction Potention	-142.39	mv
GS-AP-MW-12	9/25/2019 9:53	pH	7.4	pH
GS-AP-MW-12	9/25/2019 9:53	Temperature	22.09	C
GS-AP-MW-12	9/25/2019 9:53	Turbidity	1.34	NTU
GS-AP-MW-12	9/25/2019 9:58	Conductivity	394.56	uS/cm
GS-AP-MW-12	9/25/2019 9:58	DO	0.79	mg/L
GS-AP-MW-12	9/25/2019 9:58	Depth to Water Detail	80.6	ft
GS-AP-MW-12	9/25/2019 9:58	Oxidation Reduction Potention	-138.02	mv
GS-AP-MW-12	9/25/2019 9:58	pH	7.38	pH
GS-AP-MW-12	9/25/2019 9:58	Temperature	22.1	C
GS-AP-MW-12	9/25/2019 9:58	Turbidity	1.17	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-15	9/24/2019 7:30	Conductivity	1562.99	uS/cm
GS-AP-MW-15	9/24/2019 7:30	DO	0.26	mg/L
GS-AP-MW-15	9/24/2019 7:30	Depth to Water Detail	88.05	ft
GS-AP-MW-15	9/24/2019 7:30	Oxidation Reduction Potention	-94.75	mv
GS-AP-MW-15	9/24/2019 7:30	pH	11.71	pH
GS-AP-MW-15	9/24/2019 7:30	Temperature	17.97	C
GS-AP-MW-15	9/24/2019 7:30	Turbidity	3.44	NTU
GS-AP-MW-15	9/24/2019 7:35	Conductivity	1552.81	uS/cm
GS-AP-MW-15	9/24/2019 7:35	DO	0.26	mg/L
GS-AP-MW-15	9/24/2019 7:35	Depth to Water Detail	90.65	ft
GS-AP-MW-15	9/24/2019 7:35	Oxidation Reduction Potention	-127.45	mv
GS-AP-MW-15	9/24/2019 7:35	pH	11.71	pH
GS-AP-MW-15	9/24/2019 7:35	Temperature	17.85	C
GS-AP-MW-15	9/24/2019 7:35	Turbidity	1.4	NTU
GS-AP-MW-15	9/24/2019 7:40	Conductivity	1541.75	uS/cm
GS-AP-MW-15	9/24/2019 7:40	DO	0.28	mg/L
GS-AP-MW-15	9/24/2019 7:40	Depth to Water Detail	92.04	ft
GS-AP-MW-15	9/24/2019 7:40	Oxidation Reduction Potention	-150.07	mv
GS-AP-MW-15	9/24/2019 7:40	pH	11.72	pH
GS-AP-MW-15	9/24/2019 7:40	Temperature	17.77	C
GS-AP-MW-15	9/24/2019 7:40	Turbidity	1.15	NTU
GS-AP-MW-15	9/24/2019 7:45	Conductivity	1533.33	uS/cm
GS-AP-MW-15	9/24/2019 7:45	DO	0.51	mg/L
GS-AP-MW-15	9/24/2019 7:45	Depth to Water Detail	92.1	ft
GS-AP-MW-15	9/24/2019 7:45	Oxidation Reduction Potention	-164.87	mv
GS-AP-MW-15	9/24/2019 7:45	pH	11.66	pH
GS-AP-MW-15	9/24/2019 7:45	Temperature	19.14	C
GS-AP-MW-15	9/24/2019 7:45	Turbidity	0.95	NTU
GS-AP-MW-15	9/24/2019 7:50	Conductivity	1528.07	uS/cm
GS-AP-MW-15	9/24/2019 7:50	DO	0.58	mg/L
GS-AP-MW-15	9/24/2019 7:50	Depth to Water Detail	92	ft
GS-AP-MW-15	9/24/2019 7:50	Oxidation Reduction Potention	-176.7	mv
GS-AP-MW-15	9/24/2019 7:50	pH	11.69	pH
GS-AP-MW-15	9/24/2019 7:50	Temperature	19.51	C
GS-AP-MW-15	9/24/2019 7:50	Turbidity	0.97	NTU
GS-AP-MW-15	9/24/2019 7:55	Conductivity	1529.84	uS/cm
GS-AP-MW-15	9/24/2019 7:55	DO	0.67	mg/L
GS-AP-MW-15	9/24/2019 7:55	Depth to Water Detail	91.96	ft
GS-AP-MW-15	9/24/2019 7:55	Oxidation Reduction Potention	-183.37	mv
GS-AP-MW-15	9/24/2019 7:55	pH	11.7	pH
GS-AP-MW-15	9/24/2019 7:55	Temperature	19.54	C
GS-AP-MW-15	9/24/2019 7:55	Turbidity	0.7	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17	9/23/2019 13:59	Conductivity	979.23	uS/cm
GS-AP-MW-17	9/23/2019 13:59	DO	1.72	mg/L
GS-AP-MW-17	9/23/2019 13:59	Depth to Water Detail	182.68	ft
GS-AP-MW-17	9/23/2019 13:59	Oxidation Reduction Potention	-160.88	mv
GS-AP-MW-17	9/23/2019 13:59	pH	7.91	pH
GS-AP-MW-17	9/23/2019 13:59	Temperature	21.35	C
GS-AP-MW-17	9/23/2019 13:59	Turbidity	3.2	NTU
GS-AP-MW-17	9/23/2019 14:04	Conductivity	1106.08	uS/cm
GS-AP-MW-17	9/23/2019 14:04	DO	0.58	mg/L
GS-AP-MW-17	9/23/2019 14:04	Depth to Water Detail	182.68	ft
GS-AP-MW-17	9/23/2019 14:04	Oxidation Reduction Potention	-181.39	mv
GS-AP-MW-17	9/23/2019 14:04	pH	8.2	pH
GS-AP-MW-17	9/23/2019 14:04	Temperature	21.77	C
GS-AP-MW-17	9/23/2019 14:04	Turbidity	3.89	NTU
GS-AP-MW-17	9/23/2019 14:09	Conductivity	1155.27	uS/cm
GS-AP-MW-17	9/23/2019 14:09	DO	0.4	mg/L
GS-AP-MW-17	9/23/2019 14:09	Depth to Water Detail	182.68	ft
GS-AP-MW-17	9/23/2019 14:09	Oxidation Reduction Potention	-181.22	mv
GS-AP-MW-17	9/23/2019 14:09	pH	8.33	pH
GS-AP-MW-17	9/23/2019 14:09	Temperature	21.94	C
GS-AP-MW-17	9/23/2019 14:09	Turbidity	3.28	NTU
GS-AP-MW-17	9/23/2019 14:14	Conductivity	1162.6	uS/cm
GS-AP-MW-17	9/23/2019 14:14	DO	0.35	mg/L
GS-AP-MW-17	9/23/2019 14:14	Depth to Water Detail	182.68	ft
GS-AP-MW-17	9/23/2019 14:14	Oxidation Reduction Potention	-178.37	mv
GS-AP-MW-17	9/23/2019 14:14	pH	8.36	pH
GS-AP-MW-17	9/23/2019 14:14	Temperature	21.28	C
GS-AP-MW-17	9/23/2019 14:14	Turbidity	2.47	NTU
GS-AP-MW-17	9/23/2019 14:19	Conductivity	1154.99	uS/cm
GS-AP-MW-17	9/23/2019 14:19	DO	0.32	mg/L
GS-AP-MW-17	9/23/2019 14:19	Depth to Water Detail	182.68	ft
GS-AP-MW-17	9/23/2019 14:19	Oxidation Reduction Potention	-176.2	mv
GS-AP-MW-17	9/23/2019 14:19	pH	8.37	pH
GS-AP-MW-17	9/23/2019 14:19	Temperature	21.4	C
GS-AP-MW-17	9/23/2019 14:19	Turbidity	1.77	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-21	9/24/2019 9:29	Conductivity	1124.08	uS/cm
GS-AP-MW-21	9/24/2019 9:29	DO	3.39	mg/L
GS-AP-MW-21	9/24/2019 9:29	Depth to Water Detail	166.26	ft
GS-AP-MW-21	9/24/2019 9:29	Oxidation Reduction Potention	-44.99	mv
GS-AP-MW-21	9/24/2019 9:29	pH	10.88	pH
GS-AP-MW-21	9/24/2019 9:29	Temperature	20.31	C
GS-AP-MW-21	9/24/2019 9:29	Turbidity	1.03	NTU
GS-AP-MW-21	9/24/2019 9:34	Conductivity	1521.12	uS/cm
GS-AP-MW-21	9/24/2019 9:34	DO	1.68	mg/L
GS-AP-MW-21	9/24/2019 9:34	Depth to Water Detail	166.32	ft
GS-AP-MW-21	9/24/2019 9:34	Oxidation Reduction Potention	-66.19	mv
GS-AP-MW-21	9/24/2019 9:34	pH	11.45	pH
GS-AP-MW-21	9/24/2019 9:34	Temperature	20.16	C
GS-AP-MW-21	9/24/2019 9:34	Turbidity	0.63	NTU
GS-AP-MW-21	9/24/2019 9:39	Conductivity	1662.85	uS/cm
GS-AP-MW-21	9/24/2019 9:39	DO	1.08	mg/L
GS-AP-MW-21	9/24/2019 9:39	Depth to Water Detail	166.35	ft
GS-AP-MW-21	9/24/2019 9:39	Oxidation Reduction Potention	-88.01	mv
GS-AP-MW-21	9/24/2019 9:39	pH	11.56	pH
GS-AP-MW-21	9/24/2019 9:39	Temperature	20.13	C
GS-AP-MW-21	9/24/2019 9:39	Turbidity	0.64	NTU
GS-AP-MW-21	9/24/2019 9:44	Conductivity	1676.22	uS/cm
GS-AP-MW-21	9/24/2019 9:44	DO	0.94	mg/L
GS-AP-MW-21	9/24/2019 9:44	Depth to Water Detail	166.36	ft
GS-AP-MW-21	9/24/2019 9:44	Oxidation Reduction Potention	-102.52	mv
GS-AP-MW-21	9/24/2019 9:44	pH	11.55	pH
GS-AP-MW-21	9/24/2019 9:44	Temperature	20	C
GS-AP-MW-21	9/24/2019 9:44	Turbidity	0.74	NTU
GS-AP-MW-21	9/24/2019 9:49	Conductivity	1640.39	uS/cm
GS-AP-MW-21	9/24/2019 9:49	DO	0.86	mg/L
GS-AP-MW-21	9/24/2019 9:49	Depth to Water Detail	166.38	ft
GS-AP-MW-21	9/24/2019 9:49	Oxidation Reduction Potention	-112.9	mv
GS-AP-MW-21	9/24/2019 9:49	pH	11.52	pH
GS-AP-MW-21	9/24/2019 9:49	Temperature	20.08	C
GS-AP-MW-21	9/24/2019 9:49	Turbidity	0.5	NTU
GS-AP-MW-21	9/24/2019 9:54	Conductivity	1594.4	uS/cm
GS-AP-MW-21	9/24/2019 9:54	DO	0.85	mg/L
GS-AP-MW-21	9/24/2019 9:54	Depth to Water Detail	166.42	ft
GS-AP-MW-21	9/24/2019 9:54	Oxidation Reduction Potention	-121	mv
GS-AP-MW-21	9/24/2019 9:54	pH	11.48	pH
GS-AP-MW-21	9/24/2019 9:54	Temperature	20.03	C
GS-AP-MW-21	9/24/2019 9:54	Turbidity	0.45	NTU
GS-AP-MW-21	9/24/2019 9:59	Conductivity	1534.28	uS/cm
GS-AP-MW-21	9/24/2019 9:59	DO	0.84	mg/L
GS-AP-MW-21	9/24/2019 9:59	Depth to Water Detail	166.42	ft
GS-AP-MW-21	9/24/2019 9:59	Oxidation Reduction Potention	-127.64	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-21	9/24/2019 9:59	pH	11.43	pH
GS-AP-MW-21	9/24/2019 9:59	Temperature	20.24	C
GS-AP-MW-21	9/24/2019 9:59	Turbidity	0.42	NTU
GS-AP-MW-21	9/24/2019 10:04	Conductivity	1482.64	uS/cm
GS-AP-MW-21	9/24/2019 10:04	DO	0.82	mg/L
GS-AP-MW-21	9/24/2019 10:04	Depth to Water Detail	166.42	ft
GS-AP-MW-21	9/24/2019 10:04	Oxidation Reduction Potention	-132.87	mv
GS-AP-MW-21	9/24/2019 10:04	pH	11.39	pH
GS-AP-MW-21	9/24/2019 10:04	Temperature	20.17	C
GS-AP-MW-21	9/24/2019 10:04	Turbidity	0.49	NTU
GS-AP-MW-21	9/24/2019 10:09	Conductivity	1425.17	uS/cm
GS-AP-MW-21	9/24/2019 10:09	DO	0.83	mg/L
GS-AP-MW-21	9/24/2019 10:09	Depth to Water Detail	166.43	ft
GS-AP-MW-21	9/24/2019 10:09	Oxidation Reduction Potention	-136.89	mv
GS-AP-MW-21	9/24/2019 10:09	pH	11.34	pH
GS-AP-MW-21	9/24/2019 10:09	Temperature	20.15	C
GS-AP-MW-21	9/24/2019 10:09	Turbidity	0.39	NTU
GS-AP-MW-21	9/24/2019 10:14	Conductivity	1375.84	uS/cm
GS-AP-MW-21	9/24/2019 10:14	DO	0.83	mg/L
GS-AP-MW-21	9/24/2019 10:14	Depth to Water Detail	166.45	ft
GS-AP-MW-21	9/24/2019 10:14	Oxidation Reduction Potention	-140.15	mv
GS-AP-MW-21	9/24/2019 10:14	pH	11.28	pH
GS-AP-MW-21	9/24/2019 10:14	Temperature	20.08	C
GS-AP-MW-21	9/24/2019 10:14	Turbidity	0.42	NTU
GS-AP-MW-21	9/24/2019 10:19	Conductivity	1350.63	uS/cm
GS-AP-MW-21	9/24/2019 10:19	DO	0.84	mg/L
GS-AP-MW-21	9/24/2019 10:19	Depth to Water Detail	166.45	ft
GS-AP-MW-21	9/24/2019 10:19	Oxidation Reduction Potention	-142.89	mv
GS-AP-MW-21	9/24/2019 10:19	pH	11.26	pH
GS-AP-MW-21	9/24/2019 10:19	Temperature	20.08	C
GS-AP-MW-21	9/24/2019 10:19	Turbidity	0.44	NTU
GS-AP-MW-21	9/24/2019 10:24	Conductivity	1324.4	uS/cm
GS-AP-MW-21	9/24/2019 10:24	DO	0.83	mg/L
GS-AP-MW-21	9/24/2019 10:24	Depth to Water Detail	166.45	ft
GS-AP-MW-21	9/24/2019 10:24	Oxidation Reduction Potention	-145.23	mv
GS-AP-MW-21	9/24/2019 10:24	pH	11.24	pH
GS-AP-MW-21	9/24/2019 10:24	Temperature	20.09	C
GS-AP-MW-21	9/24/2019 10:24	Turbidity	0.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-29H	9/24/2019 12:49	Conductivity	697.25	uS/cm
GS-AP-MW-29H	9/24/2019 12:49	DO	0.85	mg/L
GS-AP-MW-29H	9/24/2019 12:49	Depth to Water Detail	91.9	ft
GS-AP-MW-29H	9/24/2019 12:49	Oxidation Reduction Potention	-170.36	mv
GS-AP-MW-29H	9/24/2019 12:49	pH	7.55	pH
GS-AP-MW-29H	9/24/2019 12:49	Temperature	21.73	C
GS-AP-MW-29H	9/24/2019 12:49	Turbidity	12.2	NTU
GS-AP-MW-29H	9/24/2019 12:54	Conductivity	674.73	uS/cm
GS-AP-MW-29H	9/24/2019 12:54	DO	0.56	mg/L
GS-AP-MW-29H	9/24/2019 12:54	Depth to Water Detail	92	ft
GS-AP-MW-29H	9/24/2019 12:54	Oxidation Reduction Potention	-157.39	mv
GS-AP-MW-29H	9/24/2019 12:54	pH	7.3	pH
GS-AP-MW-29H	9/24/2019 12:54	Temperature	20.54	C
GS-AP-MW-29H	9/24/2019 12:54	Turbidity	4.89	NTU
GS-AP-MW-29H	9/24/2019 12:59	Conductivity	657.63	uS/cm
GS-AP-MW-29H	9/24/2019 12:59	DO	0.5	mg/L
GS-AP-MW-29H	9/24/2019 12:59	Depth to Water Detail	92.14	ft
GS-AP-MW-29H	9/24/2019 12:59	Oxidation Reduction Potention	-141.35	mv
GS-AP-MW-29H	9/24/2019 12:59	pH	7.06	pH
GS-AP-MW-29H	9/24/2019 12:59	Temperature	20.32	C
GS-AP-MW-29H	9/24/2019 12:59	Turbidity	3.28	NTU
GS-AP-MW-29H	9/24/2019 13:04	Conductivity	644.92	uS/cm
GS-AP-MW-29H	9/24/2019 13:04	DO	0.45	mg/L
GS-AP-MW-29H	9/24/2019 13:04	Depth to Water Detail	92.15	ft
GS-AP-MW-29H	9/24/2019 13:04	Oxidation Reduction Potention	-137.48	mv
GS-AP-MW-29H	9/24/2019 13:04	pH	7.07	pH
GS-AP-MW-29H	9/24/2019 13:04	Temperature	20.28	C
GS-AP-MW-29H	9/24/2019 13:04	Turbidity	2.92	NTU
GS-AP-MW-29H	9/24/2019 13:09	Conductivity	631.92	uS/cm
GS-AP-MW-29H	9/24/2019 13:09	DO	0.44	mg/L
GS-AP-MW-29H	9/24/2019 13:09	Depth to Water Detail	92.15	ft
GS-AP-MW-29H	9/24/2019 13:09	Oxidation Reduction Potention	-136.32	mv
GS-AP-MW-29H	9/24/2019 13:09	pH	7.09	pH
GS-AP-MW-29H	9/24/2019 13:09	Temperature	20.52	C
GS-AP-MW-29H	9/24/2019 13:09	Turbidity	2.88	NTU
GS-AP-MW-29H	9/24/2019 13:14	Conductivity	625.07	uS/cm
GS-AP-MW-29H	9/24/2019 13:14	DO	0.43	mg/L
GS-AP-MW-29H	9/24/2019 13:14	Depth to Water Detail	92.15	ft
GS-AP-MW-29H	9/24/2019 13:14	Oxidation Reduction Potention	-134.16	mv
GS-AP-MW-29H	9/24/2019 13:14	pH	7.11	pH
GS-AP-MW-29H	9/24/2019 13:14	Temperature	20.61	C
GS-AP-MW-29H	9/24/2019 13:14	Turbidity	2.52	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-2	9/25/2019 8:57	Conductivity	570.26	uS/cm
GS-AP-MW-2	9/25/2019 8:57	DO	2.35	mg/L
GS-AP-MW-2	9/25/2019 8:57	Depth to Water Detail	148.98	ft
GS-AP-MW-2	9/25/2019 8:57	Oxidation Reduction Potention	-17.32	mv
GS-AP-MW-2	9/25/2019 8:57	pH	8.99	pH
GS-AP-MW-2	9/25/2019 8:57	Temperature	18.75	C
GS-AP-MW-2	9/25/2019 8:57	Turbidity	1.5	NTU
GS-AP-MW-2	9/25/2019 9:02	Conductivity	588.7	uS/cm
GS-AP-MW-2	9/25/2019 9:02	DO	1.11	mg/L
GS-AP-MW-2	9/25/2019 9:02	Depth to Water Detail	149.14	ft
GS-AP-MW-2	9/25/2019 9:02	Oxidation Reduction Potention	-27.09	mv
GS-AP-MW-2	9/25/2019 9:02	pH	9.26	pH
GS-AP-MW-2	9/25/2019 9:02	Temperature	18.66	C
GS-AP-MW-2	9/25/2019 9:02	Turbidity	1.07	NTU
GS-AP-MW-2	9/25/2019 9:07	Conductivity	593.92	uS/cm
GS-AP-MW-2	9/25/2019 9:07	DO	0.95	mg/L
GS-AP-MW-2	9/25/2019 9:07	Depth to Water Detail	149.15	ft
GS-AP-MW-2	9/25/2019 9:07	Oxidation Reduction Potention	-35.7	mv
GS-AP-MW-2	9/25/2019 9:07	pH	9.31	pH
GS-AP-MW-2	9/25/2019 9:07	Temperature	18.78	C
GS-AP-MW-2	9/25/2019 9:07	Turbidity	0.92	NTU
GS-AP-MW-2	9/25/2019 9:12	Conductivity	593.67	uS/cm
GS-AP-MW-2	9/25/2019 9:12	DO	0.88	mg/L
GS-AP-MW-2	9/25/2019 9:12	Depth to Water Detail	149.17	ft
GS-AP-MW-2	9/25/2019 9:12	Oxidation Reduction Potention	-43.98	mv
GS-AP-MW-2	9/25/2019 9:12	pH	9.34	pH
GS-AP-MW-2	9/25/2019 9:12	Temperature	18.88	C
GS-AP-MW-2	9/25/2019 9:12	Turbidity	0.94	NTU
GS-AP-MW-2	9/25/2019 9:17	Conductivity	592.16	uS/cm
GS-AP-MW-2	9/25/2019 9:17	DO	0.84	mg/L
GS-AP-MW-2	9/25/2019 9:17	Depth to Water Detail	149.18	ft
GS-AP-MW-2	9/25/2019 9:17	Oxidation Reduction Potention	-50.39	mv
GS-AP-MW-2	9/25/2019 9:17	pH	9.34	pH
GS-AP-MW-2	9/25/2019 9:17	Temperature	19.09	C
GS-AP-MW-2	9/25/2019 9:17	Turbidity	0.95	NTU
GS-AP-MW-2	9/25/2019 9:22	Conductivity	589.15	uS/cm
GS-AP-MW-2	9/25/2019 9:22	DO	0.83	mg/L
GS-AP-MW-2	9/25/2019 9:22	Depth to Water Detail	149.19	ft
GS-AP-MW-2	9/25/2019 9:22	Oxidation Reduction Potention	-54.31	mv
GS-AP-MW-2	9/25/2019 9:22	pH	9.31	pH
GS-AP-MW-2	9/25/2019 9:22	Temperature	18.95	C
GS-AP-MW-2	9/25/2019 9:22	Turbidity	1.19	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-6D	9/23/2019 13:11	Conductivity	488.35	uS/cm
GS-AP-MW-6D	9/23/2019 13:11	DO	0.17	mg/L
GS-AP-MW-6D	9/23/2019 13:11	Depth to Water Detail	11.55	ft
GS-AP-MW-6D	9/23/2019 13:11	Oxidation Reduction Potention	65.55	mv
GS-AP-MW-6D	9/23/2019 13:11	pH	7.11	pH
GS-AP-MW-6D	9/23/2019 13:11	Temperature	21.65	C
GS-AP-MW-6D	9/23/2019 13:11	Turbidity	0.54	NTU
GS-AP-MW-6D	9/23/2019 13:16	Conductivity	487.65	uS/cm
GS-AP-MW-6D	9/23/2019 13:16	DO	0.14	mg/L
GS-AP-MW-6D	9/23/2019 13:16	Depth to Water Detail	11.6	ft
GS-AP-MW-6D	9/23/2019 13:16	Oxidation Reduction Potention	60.81	mv
GS-AP-MW-6D	9/23/2019 13:16	pH	7.11	pH
GS-AP-MW-6D	9/23/2019 13:16	Temperature	21.56	C
GS-AP-MW-6D	9/23/2019 13:16	Turbidity	0.46	NTU
GS-AP-MW-6D	9/23/2019 13:21	Conductivity	490.35	uS/cm
GS-AP-MW-6D	9/23/2019 13:21	DO	0.14	mg/L
GS-AP-MW-6D	9/23/2019 13:21	Depth to Water Detail	11.61	ft
GS-AP-MW-6D	9/23/2019 13:21	Oxidation Reduction Potention	52.99	mv
GS-AP-MW-6D	9/23/2019 13:21	pH	7.19	pH
GS-AP-MW-6D	9/23/2019 13:21	Temperature	21.3	C
GS-AP-MW-6D	9/23/2019 13:21	Turbidity	0.47	NTU
GS-AP-MW-6D	9/23/2019 13:26	Conductivity	490.82	uS/cm
GS-AP-MW-6D	9/23/2019 13:26	DO	0.14	mg/L
GS-AP-MW-6D	9/23/2019 13:26	Depth to Water Detail	11.63	ft
GS-AP-MW-6D	9/23/2019 13:26	Oxidation Reduction Potention	47.06	mv
GS-AP-MW-6D	9/23/2019 13:26	pH	7.23	pH
GS-AP-MW-6D	9/23/2019 13:26	Temperature	21.22	C
GS-AP-MW-6D	9/23/2019 13:26	Turbidity	0.51	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-6S	9/23/2019 14:11	Conductivity	621.86	uS/cm
GS-AP-MW-6S	9/23/2019 14:11	DO	0.19	mg/L
GS-AP-MW-6S	9/23/2019 14:11	Depth to Water Detail	17.44	ft
GS-AP-MW-6S	9/23/2019 14:11	Oxidation Reduction Potention	38.04	mv
GS-AP-MW-6S	9/23/2019 14:11	pH	6.35	pH
GS-AP-MW-6S	9/23/2019 14:11	Temperature	21.05	C
GS-AP-MW-6S	9/23/2019 14:11	Turbidity	16.2	NTU
GS-AP-MW-6S	9/23/2019 14:16	Conductivity	621.09	uS/cm
GS-AP-MW-6S	9/23/2019 14:16	DO	0.14	mg/L
GS-AP-MW-6S	9/23/2019 14:16	Depth to Water Detail	17.44	ft
GS-AP-MW-6S	9/23/2019 14:16	Oxidation Reduction Potention	21.68	mv
GS-AP-MW-6S	9/23/2019 14:16	pH	6.37	pH
GS-AP-MW-6S	9/23/2019 14:16	Temperature	21.1	C
GS-AP-MW-6S	9/23/2019 14:16	Turbidity	6.87	NTU
GS-AP-MW-6S	9/23/2019 14:21	Conductivity	620.85	uS/cm
GS-AP-MW-6S	9/23/2019 14:21	DO	0.11	mg/L
GS-AP-MW-6S	9/23/2019 14:21	Depth to Water Detail	17.44	ft
GS-AP-MW-6S	9/23/2019 14:21	Oxidation Reduction Potention	0	mv
GS-AP-MW-6S	9/23/2019 14:21	pH	6.4	pH
GS-AP-MW-6S	9/23/2019 14:21	Temperature	21.21	C
GS-AP-MW-6S	9/23/2019 14:21	Turbidity	13.8	NTU
GS-AP-MW-6S	9/23/2019 14:26	Conductivity	618.47	uS/cm
GS-AP-MW-6S	9/23/2019 14:26	DO	0.1	mg/L
GS-AP-MW-6S	9/23/2019 14:26	Depth to Water Detail	17.44	ft
GS-AP-MW-6S	9/23/2019 14:26	Oxidation Reduction Potention	-21.15	mv
GS-AP-MW-6S	9/23/2019 14:26	pH	6.44	pH
GS-AP-MW-6S	9/23/2019 14:26	Temperature	21.22	C
GS-AP-MW-6S	9/23/2019 14:26	Turbidity	8.94	NTU
GS-AP-MW-6S	9/23/2019 14:31	Conductivity	619.01	uS/cm
GS-AP-MW-6S	9/23/2019 14:31	DO	0.1	mg/L
GS-AP-MW-6S	9/23/2019 14:31	Depth to Water Detail	17.44	ft
GS-AP-MW-6S	9/23/2019 14:31	Oxidation Reduction Potention	-38.35	mv
GS-AP-MW-6S	9/23/2019 14:31	pH	6.48	pH
GS-AP-MW-6S	9/23/2019 14:31	Temperature	21.22	C
GS-AP-MW-6S	9/23/2019 14:31	Turbidity	6.14	NTU
GS-AP-MW-6S	9/23/2019 14:36	Conductivity	618.86	uS/cm
GS-AP-MW-6S	9/23/2019 14:36	DO	0.09	mg/L
GS-AP-MW-6S	9/23/2019 14:36	Depth to Water Detail	17.44	ft
GS-AP-MW-6S	9/23/2019 14:36	Oxidation Reduction Potention	-50.9	mv
GS-AP-MW-6S	9/23/2019 14:36	pH	6.51	pH
GS-AP-MW-6S	9/23/2019 14:36	Temperature	21.36	C
GS-AP-MW-6S	9/23/2019 14:36	Turbidity	6.56	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	9/25/2019 11:02	Conductivity	960.76	uS/cm
GS-AP-MW-12V	9/25/2019 11:02	DO	1.09	mg/L
GS-AP-MW-12V	9/25/2019 11:02	Depth to Water Detail	93.28	ft
GS-AP-MW-12V	9/25/2019 11:02	Oxidation Reduction Potention	-270.33	mv
GS-AP-MW-12V	9/25/2019 11:02	pH	11.66	pH
GS-AP-MW-12V	9/25/2019 11:02	Temperature	22.2	C
GS-AP-MW-12V	9/25/2019 11:02	Turbidity	39.5	NTU
GS-AP-MW-12V	9/25/2019 11:07	Conductivity	991.82	uS/cm
GS-AP-MW-12V	9/25/2019 11:07	DO	0.98	mg/L
GS-AP-MW-12V	9/25/2019 11:07	Depth to Water Detail	93.83	ft
GS-AP-MW-12V	9/25/2019 11:07	Oxidation Reduction Potention	-286.83	mv
GS-AP-MW-12V	9/25/2019 11:07	pH	11.68	pH
GS-AP-MW-12V	9/25/2019 11:07	Temperature	22.35	C
GS-AP-MW-12V	9/25/2019 11:07	Turbidity	29.6	NTU
GS-AP-MW-12V	9/25/2019 11:12	Conductivity	967.95	uS/cm
GS-AP-MW-12V	9/25/2019 11:12	DO	0.96	mg/L
GS-AP-MW-12V	9/25/2019 11:12	Depth to Water Detail	94.41	ft
GS-AP-MW-12V	9/25/2019 11:12	Oxidation Reduction Potention	-296.6	mv
GS-AP-MW-12V	9/25/2019 11:12	pH	11.68	pH
GS-AP-MW-12V	9/25/2019 11:12	Temperature	22.38	C
GS-AP-MW-12V	9/25/2019 11:12	Turbidity	23.3	NTU
GS-AP-MW-12V	9/25/2019 11:17	Conductivity	934.5	uS/cm
GS-AP-MW-12V	9/25/2019 11:17	DO	1.03	mg/L
GS-AP-MW-12V	9/25/2019 11:17	Depth to Water Detail	94.84	ft
GS-AP-MW-12V	9/25/2019 11:17	Oxidation Reduction Potention	-300.31	mv
GS-AP-MW-12V	9/25/2019 11:17	pH	11.64	pH
GS-AP-MW-12V	9/25/2019 11:17	Temperature	22.86	C
GS-AP-MW-12V	9/25/2019 11:17	Turbidity	20.7	NTU
GS-AP-MW-12V	9/25/2019 11:22	Conductivity	900.1	uS/cm
GS-AP-MW-12V	9/25/2019 11:22	DO	1.06	mg/L
GS-AP-MW-12V	9/25/2019 11:22	Depth to Water Detail	95.23	ft
GS-AP-MW-12V	9/25/2019 11:22	Oxidation Reduction Potention	-303.16	mv
GS-AP-MW-12V	9/25/2019 11:22	pH	11.63	pH
GS-AP-MW-12V	9/25/2019 11:22	Temperature	22.69	C
GS-AP-MW-12V	9/25/2019 11:22	Turbidity	25.3	NTU
GS-AP-MW-12V	9/25/2019 11:27	Conductivity	847.65	uS/cm
GS-AP-MW-12V	9/25/2019 11:27	DO	1.08	mg/L
GS-AP-MW-12V	9/25/2019 11:27	Depth to Water Detail	95.56	ft
GS-AP-MW-12V	9/25/2019 11:27	Oxidation Reduction Potention	-304.38	mv
GS-AP-MW-12V	9/25/2019 11:27	pH	11.59	pH
GS-AP-MW-12V	9/25/2019 11:27	Temperature	22.88	C
GS-AP-MW-12V	9/25/2019 11:27	Turbidity	23.7	NTU
GS-AP-MW-12V	9/25/2019 11:32	Conductivity	791.8	uS/cm
GS-AP-MW-12V	9/25/2019 11:32	DO	1.1	mg/L
GS-AP-MW-12V	9/25/2019 11:32	Depth to Water Detail	95.58	ft
GS-AP-MW-12V	9/25/2019 11:32	Oxidation Reduction Potention	-305.15	mv

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Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	9/25/2019 11:32	pH	11.55	pH
GS-AP-MW-12V	9/25/2019 11:32	Temperature	22.89	C
GS-AP-MW-12V	9/25/2019 11:32	Turbidity	27.3	NTU
GS-AP-MW-12V	9/25/2019 11:37	Conductivity	746.95	uS/cm
GS-AP-MW-12V	9/25/2019 11:37	DO	1.12	mg/L
GS-AP-MW-12V	9/25/2019 11:37	Depth to Water Detail	96.09	ft
GS-AP-MW-12V	9/25/2019 11:37	Oxidation Reduction Potention	-304.71	mv
GS-AP-MW-12V	9/25/2019 11:37	pH	11.5	pH
GS-AP-MW-12V	9/25/2019 11:37	Temperature	23.35	C
GS-AP-MW-12V	9/25/2019 11:37	Turbidity	26.1	NTU
GS-AP-MW-12V	9/25/2019 11:42	Conductivity	672.66	uS/cm
GS-AP-MW-12V	9/25/2019 11:42	DO	1.12	mg/L
GS-AP-MW-12V	9/25/2019 11:42	Depth to Water Detail	96.28	ft
GS-AP-MW-12V	9/25/2019 11:42	Oxidation Reduction Potention	-304.01	mv
GS-AP-MW-12V	9/25/2019 11:42	pH	11.44	pH
GS-AP-MW-12V	9/25/2019 11:42	Temperature	23.46	C
GS-AP-MW-12V	9/25/2019 11:42	Turbidity	30.2	NTU
GS-AP-MW-12V	9/25/2019 11:47	Conductivity	600.62	uS/cm
GS-AP-MW-12V	9/25/2019 11:47	DO	1.14	mg/L
GS-AP-MW-12V	9/25/2019 11:47	Depth to Water Detail	96.46	ft
GS-AP-MW-12V	9/25/2019 11:47	Oxidation Reduction Potention	-301.64	mv
GS-AP-MW-12V	9/25/2019 11:47	pH	11.35	pH
GS-AP-MW-12V	9/25/2019 11:47	Temperature	23.69	C
GS-AP-MW-12V	9/25/2019 11:47	Turbidity	29.2	NTU
GS-AP-MW-12V	9/25/2019 11:52	Conductivity	538.27	uS/cm
GS-AP-MW-12V	9/25/2019 11:52	DO	1.12	mg/L
GS-AP-MW-12V	9/25/2019 11:52	Depth to Water Detail	96.65	ft
GS-AP-MW-12V	9/25/2019 11:52	Oxidation Reduction Potention	-300.13	mv
GS-AP-MW-12V	9/25/2019 11:52	pH	11.26	pH
GS-AP-MW-12V	9/25/2019 11:52	Temperature	23.87	C
GS-AP-MW-12V	9/25/2019 11:52	Turbidity	28.9	NTU
GS-AP-MW-12V	9/25/2019 11:57	Conductivity	437.61	uS/cm
GS-AP-MW-12V	9/25/2019 11:57	DO	1.14	mg/L
GS-AP-MW-12V	9/25/2019 11:57	Depth to Water Detail	96.81	ft
GS-AP-MW-12V	9/25/2019 11:57	Oxidation Reduction Potention	-296.34	mv
GS-AP-MW-12V	9/25/2019 11:57	pH	11.11	pH
GS-AP-MW-12V	9/25/2019 11:57	Temperature	23.92	C
GS-AP-MW-12V	9/25/2019 11:57	Turbidity	30.4	NTU
GS-AP-MW-12V	9/25/2019 12:02	Conductivity	399.53	uS/cm
GS-AP-MW-12V	9/25/2019 12:02	DO	1.18	mg/L
GS-AP-MW-12V	9/25/2019 12:02	Depth to Water Detail	96.92	ft
GS-AP-MW-12V	9/25/2019 12:02	Oxidation Reduction Potention	-294.6	mv
GS-AP-MW-12V	9/25/2019 12:02	pH	11.02	pH
GS-AP-MW-12V	9/25/2019 12:02	Temperature	23.68	C
GS-AP-MW-12V	9/25/2019 12:02	Turbidity	30.8	NTU
GS-AP-MW-12V	9/25/2019 12:07	Conductivity	365.01	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	9/25/2019 12:07	DO	1.18	mg/L
GS-AP-MW-12V	9/25/2019 12:07	Depth to Water Detail	97.04	ft
GS-AP-MW-12V	9/25/2019 12:07	Oxidation Reduction Potention	-292.68	mv
GS-AP-MW-12V	9/25/2019 12:07	pH	10.92	pH
GS-AP-MW-12V	9/25/2019 12:07	Temperature	23.36	C
GS-AP-MW-12V	9/25/2019 12:07	Turbidity	29.2	NTU
GS-AP-MW-12V	9/25/2019 12:12	Conductivity	339	uS/cm
GS-AP-MW-12V	9/25/2019 12:12	DO	1.2	mg/L
GS-AP-MW-12V	9/25/2019 12:12	Depth to Water Detail	97.11	ft
GS-AP-MW-12V	9/25/2019 12:12	Oxidation Reduction Potention	-288.54	mv
GS-AP-MW-12V	9/25/2019 12:12	pH	10.79	pH
GS-AP-MW-12V	9/25/2019 12:12	Temperature	23.67	C
GS-AP-MW-12V	9/25/2019 12:12	Turbidity	28.9	NTU
GS-AP-MW-12V	9/25/2019 12:17	Conductivity	329.18	uS/cm
GS-AP-MW-12V	9/25/2019 12:17	DO	1.22	mg/L
GS-AP-MW-12V	9/25/2019 12:17	Depth to Water Detail	97.18	ft
GS-AP-MW-12V	9/25/2019 12:17	Oxidation Reduction Potention	-287.14	mv
GS-AP-MW-12V	9/25/2019 12:17	pH	10.73	pH
GS-AP-MW-12V	9/25/2019 12:17	Temperature	23.81	C
GS-AP-MW-12V	9/25/2019 12:17	Turbidity	26.3	NTU
GS-AP-MW-12V	9/25/2019 12:22	Conductivity	307.5	uS/cm
GS-AP-MW-12V	9/25/2019 12:22	DO	1.23	mg/L
GS-AP-MW-12V	9/25/2019 12:22	Depth to Water Detail	97.28	ft
GS-AP-MW-12V	9/25/2019 12:22	Oxidation Reduction Potention	-280.77	mv
GS-AP-MW-12V	9/25/2019 12:22	pH	10.56	pH
GS-AP-MW-12V	9/25/2019 12:22	Temperature	24.18	C
GS-AP-MW-12V	9/25/2019 12:22	Turbidity	24.9	NTU
GS-AP-MW-12V	9/25/2019 12:27	Conductivity	289.17	uS/cm
GS-AP-MW-12V	9/25/2019 12:27	DO	1.24	mg/L
GS-AP-MW-12V	9/25/2019 12:27	Depth to Water Detail	97.3	ft
GS-AP-MW-12V	9/25/2019 12:27	Oxidation Reduction Potention	-272.3	mv
GS-AP-MW-12V	9/25/2019 12:27	pH	10.36	pH
GS-AP-MW-12V	9/25/2019 12:27	Temperature	24.49	C
GS-AP-MW-12V	9/25/2019 12:27	Turbidity	23.6	NTU
GS-AP-MW-12V	9/25/2019 12:32	Conductivity	278.16	uS/cm
GS-AP-MW-12V	9/25/2019 12:32	DO	1.26	mg/L
GS-AP-MW-12V	9/25/2019 12:32	Depth to Water Detail	97.33	ft
GS-AP-MW-12V	9/25/2019 12:32	Oxidation Reduction Potention	-262.38	mv
GS-AP-MW-12V	9/25/2019 12:32	pH	10.17	pH
GS-AP-MW-12V	9/25/2019 12:32	Temperature	24.41	C
GS-AP-MW-12V	9/25/2019 12:32	Turbidity	21.3	NTU
GS-AP-MW-12V	9/25/2019 12:37	Conductivity	272.52	uS/cm
GS-AP-MW-12V	9/25/2019 12:37	DO	1.25	mg/L
GS-AP-MW-12V	9/25/2019 12:37	Depth to Water Detail	97.39	ft
GS-AP-MW-12V	9/25/2019 12:37	Oxidation Reduction Potention	-253.16	mv
GS-AP-MW-12V	9/25/2019 12:37	pH	9.98	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	9/25/2019 12:37	Temperature	24.54	C
GS-AP-MW-12V	9/25/2019 12:37	Turbidity	16.8	NTU
GS-AP-MW-12V	9/25/2019 12:42	Conductivity	271.4	uS/cm
GS-AP-MW-12V	9/25/2019 12:42	DO	1.28	mg/L
GS-AP-MW-12V	9/25/2019 12:42	Depth to Water Detail	97.42	ft
GS-AP-MW-12V	9/25/2019 12:42	Oxidation Reduction Potention	-244.18	mv
GS-AP-MW-12V	9/25/2019 12:42	pH	9.81	pH
GS-AP-MW-12V	9/25/2019 12:42	Temperature	24.95	C
GS-AP-MW-12V	9/25/2019 12:42	Turbidity	18.1	NTU
GS-AP-MW-12V	9/25/2019 12:47	Conductivity	271.51	uS/cm
GS-AP-MW-12V	9/25/2019 12:47	DO	1.28	mg/L
GS-AP-MW-12V	9/25/2019 12:47	Depth to Water Detail	97.44	ft
GS-AP-MW-12V	9/25/2019 12:47	Oxidation Reduction Potention	-235.89	mv
GS-AP-MW-12V	9/25/2019 12:47	pH	9.66	pH
GS-AP-MW-12V	9/25/2019 12:47	Temperature	25.01	C
GS-AP-MW-12V	9/25/2019 12:47	Turbidity	15.9	NTU
GS-AP-MW-12V	9/25/2019 12:52	Conductivity	270.82	uS/cm
GS-AP-MW-12V	9/25/2019 12:52	DO	1.26	mg/L
GS-AP-MW-12V	9/25/2019 12:52	Depth to Water Detail	97.46	ft
GS-AP-MW-12V	9/25/2019 12:52	Oxidation Reduction Potention	-229	mv
GS-AP-MW-12V	9/25/2019 12:52	pH	9.58	pH
GS-AP-MW-12V	9/25/2019 12:52	Temperature	24.96	C
GS-AP-MW-12V	9/25/2019 12:52	Turbidity	14.8	NTU
GS-AP-MW-12V	9/25/2019 12:57	Conductivity	272.07	uS/cm
GS-AP-MW-12V	9/25/2019 12:57	DO	1.27	mg/L
GS-AP-MW-12V	9/25/2019 12:57	Depth to Water Detail	97.46	ft
GS-AP-MW-12V	9/25/2019 12:57	Oxidation Reduction Potention	-227.13	mv
GS-AP-MW-12V	9/25/2019 12:57	pH	9.53	pH
GS-AP-MW-12V	9/25/2019 12:57	Temperature	24.69	C
GS-AP-MW-12V	9/25/2019 12:57	Turbidity	13.6	NTU
GS-AP-MW-12V	9/25/2019 13:02	Conductivity	275.15	uS/cm
GS-AP-MW-12V	9/25/2019 13:02	DO	1.28	mg/L
GS-AP-MW-12V	9/25/2019 13:02	Depth to Water Detail	97.48	ft
GS-AP-MW-12V	9/25/2019 13:02	Oxidation Reduction Potention	-224.87	mv
GS-AP-MW-12V	9/25/2019 13:02	pH	9.49	pH
GS-AP-MW-12V	9/25/2019 13:02	Temperature	24.53	C
GS-AP-MW-12V	9/25/2019 13:02	Turbidity	13.3	NTU
GS-AP-MW-12V	9/25/2019 13:07	Conductivity	276.51	uS/cm
GS-AP-MW-12V	9/25/2019 13:07	DO	1.27	mg/L
GS-AP-MW-12V	9/25/2019 13:07	Depth to Water Detail	97.48	ft
GS-AP-MW-12V	9/25/2019 13:07	Oxidation Reduction Potention	-222.77	mv
GS-AP-MW-12V	9/25/2019 13:07	pH	9.45	pH
GS-AP-MW-12V	9/25/2019 13:07	Temperature	24.56	C
GS-AP-MW-12V	9/25/2019 13:07	Turbidity	12.3	NTU
GS-AP-MW-12V	9/25/2019 13:12	Conductivity	277.44	uS/cm
GS-AP-MW-12V	9/25/2019 13:12	DO	1.28	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-12V	9/25/2019 13:12	Depth to Water Detail	97.52	ft
GS-AP-MW-12V	9/25/2019 13:12	Oxidation Reduction Potention	-221.42	mv
GS-AP-MW-12V	9/25/2019 13:12	pH	9.43	pH
GS-AP-MW-12V	9/25/2019 13:12	Temperature	24.52	C
GS-AP-MW-12V	9/25/2019 13:12	Turbidity	11.2	NTU
GS-AP-MW-12V	9/25/2019 13:17	Conductivity	278.04	uS/cm
GS-AP-MW-12V	9/25/2019 13:17	DO	1.28	mg/L
GS-AP-MW-12V	9/25/2019 13:17	Depth to Water Detail	97.53	ft
GS-AP-MW-12V	9/25/2019 13:17	Oxidation Reduction Potention	-219.62	mv
GS-AP-MW-12V	9/25/2019 13:17	pH	9.4	pH
GS-AP-MW-12V	9/25/2019 13:17	Temperature	24	C
GS-AP-MW-12V	9/25/2019 13:17	Turbidity	10.89	NTU
GS-AP-MW-12V	9/25/2019 13:22	Conductivity	279.3	uS/cm
GS-AP-MW-12V	9/25/2019 13:22	DO	1.28	mg/L
GS-AP-MW-12V	9/25/2019 13:22	Depth to Water Detail	97.55	ft
GS-AP-MW-12V	9/25/2019 13:22	Oxidation Reduction Potention	-217.63	mv
GS-AP-MW-12V	9/25/2019 13:22	pH	9.35	pH
GS-AP-MW-12V	9/25/2019 13:22	Temperature	24.24	C
GS-AP-MW-12V	9/25/2019 13:22	Turbidity	10.67	NTU
GS-AP-MW-12V	9/25/2019 13:27	Conductivity	281.91	uS/cm
GS-AP-MW-12V	9/25/2019 13:27	DO	1.28	mg/L
GS-AP-MW-12V	9/25/2019 13:27	Depth to Water Detail	97.58	ft
GS-AP-MW-12V	9/25/2019 13:27	Oxidation Reduction Potention	-213.19	mv
GS-AP-MW-12V	9/25/2019 13:27	pH	9.29	pH
GS-AP-MW-12V	9/25/2019 13:27	Temperature	23.36	C
GS-AP-MW-12V	9/25/2019 13:27	Turbidity	9.54	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-16D	9/24/2019 13:11	Conductivity	360.06	uS/cm
GS-AP-MW-16D	9/24/2019 13:11	DO	2.51	mg/L
GS-AP-MW-16D	9/24/2019 13:11	Depth to Water Detail	147.43	ft
GS-AP-MW-16D	9/24/2019 13:11	Oxidation Reduction Potention	-19.07	mv
GS-AP-MW-16D	9/24/2019 13:11	pH	7.28	pH
GS-AP-MW-16D	9/24/2019 13:11	Temperature	21.13	C
GS-AP-MW-16D	9/24/2019 13:11	Turbidity	0.99	NTU
GS-AP-MW-16D	9/24/2019 13:16	Conductivity	362.53	uS/cm
GS-AP-MW-16D	9/24/2019 13:16	DO	0.86	mg/L
GS-AP-MW-16D	9/24/2019 13:16	Depth to Water Detail	147.98	ft
GS-AP-MW-16D	9/24/2019 13:16	Oxidation Reduction Potention	-34	mv
GS-AP-MW-16D	9/24/2019 13:16	pH	7.34	pH
GS-AP-MW-16D	9/24/2019 13:16	Temperature	21.56	C
GS-AP-MW-16D	9/24/2019 13:16	Turbidity	0.57	NTU
GS-AP-MW-16D	9/24/2019 13:21	Conductivity	362.08	uS/cm
GS-AP-MW-16D	9/24/2019 13:21	DO	0.53	mg/L
GS-AP-MW-16D	9/24/2019 13:21	Depth to Water Detail	148.28	ft
GS-AP-MW-16D	9/24/2019 13:21	Oxidation Reduction Potention	-42.74	mv
GS-AP-MW-16D	9/24/2019 13:21	pH	7.37	pH
GS-AP-MW-16D	9/24/2019 13:21	Temperature	21.46	C
GS-AP-MW-16D	9/24/2019 13:21	Turbidity	0.55	NTU
GS-AP-MW-16D	9/24/2019 13:26	Conductivity	361.53	uS/cm
GS-AP-MW-16D	9/24/2019 13:26	DO	0.46	mg/L
GS-AP-MW-16D	9/24/2019 13:26	Depth to Water Detail	148.64	ft
GS-AP-MW-16D	9/24/2019 13:26	Oxidation Reduction Potention	-48.86	mv
GS-AP-MW-16D	9/24/2019 13:26	pH	7.37	pH
GS-AP-MW-16D	9/24/2019 13:26	Temperature	21.36	C
GS-AP-MW-16D	9/24/2019 13:26	Turbidity	0.48	NTU
GS-AP-MW-16D	9/24/2019 13:31	Conductivity	361.84	uS/cm
GS-AP-MW-16D	9/24/2019 13:31	DO	0.45	mg/L
GS-AP-MW-16D	9/24/2019 13:31	Depth to Water Detail	148.87	ft
GS-AP-MW-16D	9/24/2019 13:31	Oxidation Reduction Potention	-54.38	mv
GS-AP-MW-16D	9/24/2019 13:31	pH	7.4	pH
GS-AP-MW-16D	9/24/2019 13:31	Temperature	21.31	C
GS-AP-MW-16D	9/24/2019 13:31	Turbidity	0.49	NTU
GS-AP-MW-16D	9/24/2019 13:36	Conductivity	360.13	uS/cm
GS-AP-MW-16D	9/24/2019 13:36	DO	0.44	mg/L
GS-AP-MW-16D	9/24/2019 13:36	Depth to Water Detail	149.06	ft
GS-AP-MW-16D	9/24/2019 13:36	Oxidation Reduction Potention	-58.12	mv
GS-AP-MW-16D	9/24/2019 13:36	pH	7.41	pH
GS-AP-MW-16D	9/24/2019 13:36	Temperature	21.14	C
GS-AP-MW-16D	9/24/2019 13:36	Turbidity	0.51	NTU
GS-AP-MW-16D	9/24/2019 13:41	Conductivity	361.57	uS/cm
GS-AP-MW-16D	9/24/2019 13:41	DO	0.44	mg/L
GS-AP-MW-16D	9/24/2019 13:41	Depth to Water Detail	149.23	ft
GS-AP-MW-16D	9/24/2019 13:41	Oxidation Reduction Potention	-59.02	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-16D	9/24/2019 13:41	pH	7.38	pH
GS-AP-MW-16D	9/24/2019 13:41	Temperature	21.48	C
GS-AP-MW-16D	9/24/2019 13:41	Turbidity	0.56	NTU
GS-AP-MW-16D	9/24/2019 13:46	Conductivity	360.53	uS/cm
GS-AP-MW-16D	9/24/2019 13:46	DO	0.45	mg/L
GS-AP-MW-16D	9/24/2019 13:46	Depth to Water Detail	149.38	ft
GS-AP-MW-16D	9/24/2019 13:46	Oxidation Reduction Potention	-63.12	mv
GS-AP-MW-16D	9/24/2019 13:46	pH	7.43	pH
GS-AP-MW-16D	9/24/2019 13:46	Temperature	21.23	C
GS-AP-MW-16D	9/24/2019 13:46	Turbidity	0.43	NTU
GS-AP-MW-16D	9/24/2019 13:51	Conductivity	358.82	uS/cm
GS-AP-MW-16D	9/24/2019 13:51	DO	0.43	mg/L
GS-AP-MW-16D	9/24/2019 13:51	Depth to Water Detail	149.53	ft
GS-AP-MW-16D	9/24/2019 13:51	Oxidation Reduction Potention	-63.39	mv
GS-AP-MW-16D	9/24/2019 13:51	pH	7.41	pH
GS-AP-MW-16D	9/24/2019 13:51	Temperature	21.24	C
GS-AP-MW-16D	9/24/2019 13:51	Turbidity	0.42	NTU
GS-AP-MW-16D	9/24/2019 13:56	Conductivity	360.37	uS/cm
GS-AP-MW-16D	9/24/2019 13:56	DO	0.45	mg/L
GS-AP-MW-16D	9/24/2019 13:56	Depth to Water Detail	149.63	ft
GS-AP-MW-16D	9/24/2019 13:56	Oxidation Reduction Potention	-65.9	mv
GS-AP-MW-16D	9/24/2019 13:56	pH	7.43	pH
GS-AP-MW-16D	9/24/2019 13:56	Temperature	21.2	C
GS-AP-MW-16D	9/24/2019 13:56	Turbidity	0.44	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 8:12	Conductivity	752.79	uS/cm
GS-AP-MW-17V	9/24/2019 8:12	DO	0.57	mg/L
GS-AP-MW-17V	9/24/2019 8:12	Depth to Water Detail	113.67	ft
GS-AP-MW-17V	9/24/2019 8:12	Oxidation Reduction Potention	-40.4	mv
GS-AP-MW-17V	9/24/2019 8:12	pH	7.43	pH
GS-AP-MW-17V	9/24/2019 8:12	Temperature	19.36	C
GS-AP-MW-17V	9/24/2019 8:12	Turbidity	6.45	NTU
GS-AP-MW-17V	9/24/2019 8:17	Conductivity	748.6	uS/cm
GS-AP-MW-17V	9/24/2019 8:17	DO	0.43	mg/L
GS-AP-MW-17V	9/24/2019 8:17	Depth to Water Detail	114.25	ft
GS-AP-MW-17V	9/24/2019 8:17	Oxidation Reduction Potention	-106.29	mv
GS-AP-MW-17V	9/24/2019 8:17	pH	7.51	pH
GS-AP-MW-17V	9/24/2019 8:17	Temperature	19.24	C
GS-AP-MW-17V	9/24/2019 8:17	Turbidity	3.76	NTU
GS-AP-MW-17V	9/24/2019 8:22	Conductivity	750.6	uS/cm
GS-AP-MW-17V	9/24/2019 8:22	DO	0.38	mg/L
GS-AP-MW-17V	9/24/2019 8:22	Depth to Water Detail	115.08	ft
GS-AP-MW-17V	9/24/2019 8:22	Oxidation Reduction Potention	-137.38	mv
GS-AP-MW-17V	9/24/2019 8:22	pH	7.54	pH
GS-AP-MW-17V	9/24/2019 8:22	Temperature	19.1	C
GS-AP-MW-17V	9/24/2019 8:22	Turbidity	3.37	NTU
GS-AP-MW-17V	9/24/2019 8:27	Conductivity	744.73	uS/cm
GS-AP-MW-17V	9/24/2019 8:27	DO	0.37	mg/L
GS-AP-MW-17V	9/24/2019 8:27	Depth to Water Detail	115.61	ft
GS-AP-MW-17V	9/24/2019 8:27	Oxidation Reduction Potention	-155.1	mv
GS-AP-MW-17V	9/24/2019 8:27	pH	7.56	pH
GS-AP-MW-17V	9/24/2019 8:27	Temperature	19.12	C
GS-AP-MW-17V	9/24/2019 8:27	Turbidity	3.67	NTU
GS-AP-MW-17V	9/24/2019 8:32	Conductivity	751.53	uS/cm
GS-AP-MW-17V	9/24/2019 8:32	DO	0.4	mg/L
GS-AP-MW-17V	9/24/2019 8:32	Depth to Water Detail	116.03	ft
GS-AP-MW-17V	9/24/2019 8:32	Oxidation Reduction Potention	-167.57	mv
GS-AP-MW-17V	9/24/2019 8:32	pH	7.59	pH
GS-AP-MW-17V	9/24/2019 8:32	Temperature	19.09	C
GS-AP-MW-17V	9/24/2019 8:32	Turbidity	3.13	NTU
GS-AP-MW-17V	9/24/2019 8:37	Conductivity	749.86	uS/cm
GS-AP-MW-17V	9/24/2019 8:37	DO	0.39	mg/L
GS-AP-MW-17V	9/24/2019 8:37	Depth to Water Detail	116.53	ft
GS-AP-MW-17V	9/24/2019 8:37	Oxidation Reduction Potention	-172.47	mv
GS-AP-MW-17V	9/24/2019 8:37	pH	7.58	pH
GS-AP-MW-17V	9/24/2019 8:37	Temperature	19.17	C
GS-AP-MW-17V	9/24/2019 8:37	Turbidity	2.69	NTU
GS-AP-MW-17V	9/24/2019 8:42	Conductivity	746.77	uS/cm
GS-AP-MW-17V	9/24/2019 8:42	DO	0.42	mg/L
GS-AP-MW-17V	9/24/2019 8:42	Depth to Water Detail	117.08	ft
GS-AP-MW-17V	9/24/2019 8:42	Oxidation Reduction Potention	-175.49	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 8:42	pH	7.59	pH
GS-AP-MW-17V	9/24/2019 8:42	Temperature	19.22	C
GS-AP-MW-17V	9/24/2019 8:42	Turbidity	2.2	NTU
GS-AP-MW-17V	9/24/2019 8:47	Conductivity	728.11	uS/cm
GS-AP-MW-17V	9/24/2019 8:47	DO	0.4	mg/L
GS-AP-MW-17V	9/24/2019 8:47	Depth to Water Detail	117.56	ft
GS-AP-MW-17V	9/24/2019 8:47	Oxidation Reduction Potention	-175.53	mv
GS-AP-MW-17V	9/24/2019 8:47	pH	7.58	pH
GS-AP-MW-17V	9/24/2019 8:47	Temperature	19.2	C
GS-AP-MW-17V	9/24/2019 8:47	Turbidity	2.21	NTU
GS-AP-MW-17V	9/24/2019 8:52	Conductivity	707.62	uS/cm
GS-AP-MW-17V	9/24/2019 8:52	DO	0.41	mg/L
GS-AP-MW-17V	9/24/2019 8:52	Depth to Water Detail	118.08	ft
GS-AP-MW-17V	9/24/2019 8:52	Oxidation Reduction Potention	-173.9	mv
GS-AP-MW-17V	9/24/2019 8:52	pH	7.56	pH
GS-AP-MW-17V	9/24/2019 8:52	Temperature	19.24	C
GS-AP-MW-17V	9/24/2019 8:52	Turbidity	2.18	NTU
GS-AP-MW-17V	9/24/2019 8:57	Conductivity	679.03	uS/cm
GS-AP-MW-17V	9/24/2019 8:57	DO	0.43	mg/L
GS-AP-MW-17V	9/24/2019 8:57	Depth to Water Detail	118.71	ft
GS-AP-MW-17V	9/24/2019 8:57	Oxidation Reduction Potention	-173.14	mv
GS-AP-MW-17V	9/24/2019 8:57	pH	7.59	pH
GS-AP-MW-17V	9/24/2019 8:57	Temperature	19.36	C
GS-AP-MW-17V	9/24/2019 8:57	Turbidity	1.79	NTU
GS-AP-MW-17V	9/24/2019 9:02	Conductivity	654.89	uS/cm
GS-AP-MW-17V	9/24/2019 9:02	DO	0.42	mg/L
GS-AP-MW-17V	9/24/2019 9:02	Depth to Water Detail	119.41	ft
GS-AP-MW-17V	9/24/2019 9:02	Oxidation Reduction Potention	-170.09	mv
GS-AP-MW-17V	9/24/2019 9:02	pH	7.59	pH
GS-AP-MW-17V	9/24/2019 9:02	Temperature	19.27	C
GS-AP-MW-17V	9/24/2019 9:02	Turbidity	2.07	NTU
GS-AP-MW-17V	9/24/2019 9:07	Conductivity	649.23	uS/cm
GS-AP-MW-17V	9/24/2019 9:07	DO	0.44	mg/L
GS-AP-MW-17V	9/24/2019 9:07	Depth to Water Detail	119.77	ft
GS-AP-MW-17V	9/24/2019 9:07	Oxidation Reduction Potention	-168.62	mv
GS-AP-MW-17V	9/24/2019 9:07	pH	7.61	pH
GS-AP-MW-17V	9/24/2019 9:07	Temperature	19.68	C
GS-AP-MW-17V	9/24/2019 9:07	Turbidity	2.21	NTU
GS-AP-MW-17V	9/24/2019 9:12	Conductivity	652.01	uS/cm
GS-AP-MW-17V	9/24/2019 9:12	DO	0.46	mg/L
GS-AP-MW-17V	9/24/2019 9:12	Depth to Water Detail	120.15	ft
GS-AP-MW-17V	9/24/2019 9:12	Oxidation Reduction Potention	-167.13	mv
GS-AP-MW-17V	9/24/2019 9:12	pH	7.61	pH
GS-AP-MW-17V	9/24/2019 9:12	Temperature	19.53	C
GS-AP-MW-17V	9/24/2019 9:12	Turbidity	1.85	NTU
GS-AP-MW-17V	9/24/2019 9:17	Conductivity	658.14	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 9:17	DO	0.47	mg/L
GS-AP-MW-17V	9/24/2019 9:17	Depth to Water Detail	120.67	ft
GS-AP-MW-17V	9/24/2019 9:17	Oxidation Reduction Potention	-164.41	mv
GS-AP-MW-17V	9/24/2019 9:17	pH	7.58	pH
GS-AP-MW-17V	9/24/2019 9:17	Temperature	19.52	C
GS-AP-MW-17V	9/24/2019 9:17	Turbidity	1.77	NTU
GS-AP-MW-17V	9/24/2019 9:22	Conductivity	662.26	uS/cm
GS-AP-MW-17V	9/24/2019 9:22	DO	0.72	mg/L
GS-AP-MW-17V	9/24/2019 9:22	Depth to Water Detail	121.17	ft
GS-AP-MW-17V	9/24/2019 9:22	Oxidation Reduction Potention	-154.44	mv
GS-AP-MW-17V	9/24/2019 9:22	pH	7.62	pH
GS-AP-MW-17V	9/24/2019 9:22	Temperature	19.03	C
GS-AP-MW-17V	9/24/2019 9:22	Turbidity	1.72	NTU
GS-AP-MW-17V	9/24/2019 9:27	Conductivity	654.92	uS/cm
GS-AP-MW-17V	9/24/2019 9:27	DO	0.58	mg/L
GS-AP-MW-17V	9/24/2019 9:27	Depth to Water Detail	121.5	ft
GS-AP-MW-17V	9/24/2019 9:27	Oxidation Reduction Potention	-159.15	mv
GS-AP-MW-17V	9/24/2019 9:27	pH	7.61	pH
GS-AP-MW-17V	9/24/2019 9:27	Temperature	19.16	C
GS-AP-MW-17V	9/24/2019 9:27	Turbidity	1.69	NTU
GS-AP-MW-17V	9/24/2019 9:32	Conductivity	650.38	uS/cm
GS-AP-MW-17V	9/24/2019 9:32	DO	0.54	mg/L
GS-AP-MW-17V	9/24/2019 9:32	Depth to Water Detail	122.09	ft
GS-AP-MW-17V	9/24/2019 9:32	Oxidation Reduction Potention	-160.8	mv
GS-AP-MW-17V	9/24/2019 9:32	pH	7.62	pH
GS-AP-MW-17V	9/24/2019 9:32	Temperature	19.12	C
GS-AP-MW-17V	9/24/2019 9:32	Turbidity	1.77	NTU
GS-AP-MW-17V	9/24/2019 9:37	Conductivity	646.55	uS/cm
GS-AP-MW-17V	9/24/2019 9:37	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 9:37	Depth to Water Detail	122.28	ft
GS-AP-MW-17V	9/24/2019 9:37	Oxidation Reduction Potention	-162.68	mv
GS-AP-MW-17V	9/24/2019 9:37	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 9:37	Temperature	19.07	C
GS-AP-MW-17V	9/24/2019 9:37	Turbidity	1.8	NTU
GS-AP-MW-17V	9/24/2019 9:42	Conductivity	645.47	uS/cm
GS-AP-MW-17V	9/24/2019 9:42	DO	0.51	mg/L
GS-AP-MW-17V	9/24/2019 9:42	Depth to Water Detail	122.7	ft
GS-AP-MW-17V	9/24/2019 9:42	Oxidation Reduction Potention	-162.09	mv
GS-AP-MW-17V	9/24/2019 9:42	pH	7.61	pH
GS-AP-MW-17V	9/24/2019 9:42	Temperature	19.09	C
GS-AP-MW-17V	9/24/2019 9:42	Turbidity	1.96	NTU
GS-AP-MW-17V	9/24/2019 9:47	Conductivity	642.21	uS/cm
GS-AP-MW-17V	9/24/2019 9:47	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 9:47	Depth to Water Detail	123.11	ft
GS-AP-MW-17V	9/24/2019 9:47	Oxidation Reduction Potention	-163.62	mv
GS-AP-MW-17V	9/24/2019 9:47	pH	7.64	pH

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 9:47	Temperature	19.09	C
GS-AP-MW-17V	9/24/2019 9:47	Turbidity	2.18	NTU
GS-AP-MW-17V	9/24/2019 9:52	Conductivity	644	uS/cm
GS-AP-MW-17V	9/24/2019 9:52	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 9:52	Depth to Water Detail	123.5	ft
GS-AP-MW-17V	9/24/2019 9:52	Oxidation Reduction Potention	-164.23	mv
GS-AP-MW-17V	9/24/2019 9:52	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 9:52	Temperature	19.07	C
GS-AP-MW-17V	9/24/2019 9:52	Turbidity	1.96	NTU
GS-AP-MW-17V	9/24/2019 9:57	Conductivity	641.44	uS/cm
GS-AP-MW-17V	9/24/2019 9:57	DO	0.48	mg/L
GS-AP-MW-17V	9/24/2019 9:57	Depth to Water Detail	123.91	ft
GS-AP-MW-17V	9/24/2019 9:57	Oxidation Reduction Potention	-162.06	mv
GS-AP-MW-17V	9/24/2019 9:57	pH	7.6	pH
GS-AP-MW-17V	9/24/2019 9:57	Temperature	19.16	C
GS-AP-MW-17V	9/24/2019 9:57	Turbidity	1.84	NTU
GS-AP-MW-17V	9/24/2019 10:02	Conductivity	637.16	uS/cm
GS-AP-MW-17V	9/24/2019 10:02	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:02	Depth to Water Detail	124.23	ft
GS-AP-MW-17V	9/24/2019 10:02	Oxidation Reduction Potention	-163.99	mv
GS-AP-MW-17V	9/24/2019 10:02	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:02	Temperature	19.16	C
GS-AP-MW-17V	9/24/2019 10:02	Turbidity	1.78	NTU
GS-AP-MW-17V	9/24/2019 10:07	Conductivity	632.6	uS/cm
GS-AP-MW-17V	9/24/2019 10:07	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:07	Depth to Water Detail	124.7	ft
GS-AP-MW-17V	9/24/2019 10:07	Oxidation Reduction Potention	-163.04	mv
GS-AP-MW-17V	9/24/2019 10:07	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 10:07	Temperature	19.12	C
GS-AP-MW-17V	9/24/2019 10:07	Turbidity	1.84	NTU
GS-AP-MW-17V	9/24/2019 10:12	Conductivity	638.12	uS/cm
GS-AP-MW-17V	9/24/2019 10:12	DO	0.48	mg/L
GS-AP-MW-17V	9/24/2019 10:12	Depth to Water Detail	125.02	ft
GS-AP-MW-17V	9/24/2019 10:12	Oxidation Reduction Potention	-163.52	mv
GS-AP-MW-17V	9/24/2019 10:12	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:12	Temperature	19.22	C
GS-AP-MW-17V	9/24/2019 10:12	Turbidity	1.53	NTU
GS-AP-MW-17V	9/24/2019 10:17	Conductivity	638.41	uS/cm
GS-AP-MW-17V	9/24/2019 10:17	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:17	Depth to Water Detail	125.31	ft
GS-AP-MW-17V	9/24/2019 10:17	Oxidation Reduction Potention	-163.64	mv
GS-AP-MW-17V	9/24/2019 10:17	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:17	Temperature	19.16	C
GS-AP-MW-17V	9/24/2019 10:17	Turbidity	1.66	NTU
GS-AP-MW-17V	9/24/2019 10:22	Conductivity	637.34	uS/cm
GS-AP-MW-17V	9/24/2019 10:22	DO	0.48	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 10:22	Depth to Water Detail	125.72	ft
GS-AP-MW-17V	9/24/2019 10:22	Oxidation Reduction Potention	-161.46	mv
GS-AP-MW-17V	9/24/2019 10:22	pH	7.6	pH
GS-AP-MW-17V	9/24/2019 10:22	Temperature	19.17	C
GS-AP-MW-17V	9/24/2019 10:22	Turbidity	1.74	NTU
GS-AP-MW-17V	9/24/2019 10:27	Conductivity	635.75	uS/cm
GS-AP-MW-17V	9/24/2019 10:27	DO	0.48	mg/L
GS-AP-MW-17V	9/24/2019 10:27	Depth to Water Detail	126.11	ft
GS-AP-MW-17V	9/24/2019 10:27	Oxidation Reduction Potention	-163.04	mv
GS-AP-MW-17V	9/24/2019 10:27	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:27	Temperature	19.18	C
GS-AP-MW-17V	9/24/2019 10:27	Turbidity	1.39	NTU
GS-AP-MW-17V	9/24/2019 10:32	Conductivity	633.71	uS/cm
GS-AP-MW-17V	9/24/2019 10:32	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:32	Depth to Water Detail	126.46	ft
GS-AP-MW-17V	9/24/2019 10:32	Oxidation Reduction Potention	-162.47	mv
GS-AP-MW-17V	9/24/2019 10:32	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 10:32	Temperature	19.17	C
GS-AP-MW-17V	9/24/2019 10:32	Turbidity	1.44	NTU
GS-AP-MW-17V	9/24/2019 10:37	Conductivity	632.42	uS/cm
GS-AP-MW-17V	9/24/2019 10:37	DO	0.45	mg/L
GS-AP-MW-17V	9/24/2019 10:37	Depth to Water Detail	126.78	ft
GS-AP-MW-17V	9/24/2019 10:37	Oxidation Reduction Potention	-162.98	mv
GS-AP-MW-17V	9/24/2019 10:37	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:37	Temperature	19.23	C
GS-AP-MW-17V	9/24/2019 10:37	Turbidity	1.15	NTU
GS-AP-MW-17V	9/24/2019 10:42	Conductivity	631.74	uS/cm
GS-AP-MW-17V	9/24/2019 10:42	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:42	Depth to Water Detail	127.13	ft
GS-AP-MW-17V	9/24/2019 10:42	Oxidation Reduction Potention	-162.67	mv
GS-AP-MW-17V	9/24/2019 10:42	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:42	Temperature	19.26	C
GS-AP-MW-17V	9/24/2019 10:42	Turbidity	1.24	NTU
GS-AP-MW-17V	9/24/2019 10:47	Conductivity	629.48	uS/cm
GS-AP-MW-17V	9/24/2019 10:47	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:47	Depth to Water Detail	127.49	ft
GS-AP-MW-17V	9/24/2019 10:47	Oxidation Reduction Potention	-160.04	mv
GS-AP-MW-17V	9/24/2019 10:47	pH	7.61	pH
GS-AP-MW-17V	9/24/2019 10:47	Temperature	19.4	C
GS-AP-MW-17V	9/24/2019 10:47	Turbidity	1.28	NTU
GS-AP-MW-17V	9/24/2019 10:52	Conductivity	624.95	uS/cm
GS-AP-MW-17V	9/24/2019 10:52	DO	0.49	mg/L
GS-AP-MW-17V	9/24/2019 10:52	Depth to Water Detail	127.81	ft
GS-AP-MW-17V	9/24/2019 10:52	Oxidation Reduction Potention	-160.88	mv
GS-AP-MW-17V	9/24/2019 10:52	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 10:52	Temperature	19.38	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 10:52	Turbidity	1.24	NTU
GS-AP-MW-17V	9/24/2019 10:57	Conductivity	624.48	uS/cm
GS-AP-MW-17V	9/24/2019 10:57	DO	0.5	mg/L
GS-AP-MW-17V	9/24/2019 10:57	Depth to Water Detail	128.14	ft
GS-AP-MW-17V	9/24/2019 10:57	Oxidation Reduction Potention	-160.28	mv
GS-AP-MW-17V	9/24/2019 10:57	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 10:57	Temperature	19.38	C
GS-AP-MW-17V	9/24/2019 10:57	Turbidity	1.07	NTU
GS-AP-MW-17V	9/24/2019 11:02	Conductivity	623.79	uS/cm
GS-AP-MW-17V	9/24/2019 11:02	DO	0.45	mg/L
GS-AP-MW-17V	9/24/2019 11:02	Depth to Water Detail	128.43	ft
GS-AP-MW-17V	9/24/2019 11:02	Oxidation Reduction Potention	-160.4	mv
GS-AP-MW-17V	9/24/2019 11:02	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 11:02	Temperature	19.2	C
GS-AP-MW-17V	9/24/2019 11:02	Turbidity	1.12	NTU
GS-AP-MW-17V	9/24/2019 11:07	Conductivity	628.59	uS/cm
GS-AP-MW-17V	9/24/2019 11:07	DO	0.45	mg/L
GS-AP-MW-17V	9/24/2019 11:07	Depth to Water Detail	128.84	ft
GS-AP-MW-17V	9/24/2019 11:07	Oxidation Reduction Potention	-158.2	mv
GS-AP-MW-17V	9/24/2019 11:07	pH	7.58	pH
GS-AP-MW-17V	9/24/2019 11:07	Temperature	19.51	C
GS-AP-MW-17V	9/24/2019 11:07	Turbidity	1.08	NTU
GS-AP-MW-17V	9/24/2019 11:12	Conductivity	625.92	uS/cm
GS-AP-MW-17V	9/24/2019 11:12	DO	0.46	mg/L
GS-AP-MW-17V	9/24/2019 11:12	Depth to Water Detail	129.11	ft
GS-AP-MW-17V	9/24/2019 11:12	Oxidation Reduction Potention	-160.31	mv
GS-AP-MW-17V	9/24/2019 11:12	pH	7.64	pH
GS-AP-MW-17V	9/24/2019 11:12	Temperature	19.42	C
GS-AP-MW-17V	9/24/2019 11:12	Turbidity	0.96	NTU
GS-AP-MW-17V	9/24/2019 11:17	Conductivity	602.01	uS/cm
GS-AP-MW-17V	9/24/2019 11:17	DO	0.21	mg/L
GS-AP-MW-17V	9/24/2019 11:17	Depth to Water Detail	130.68	ft
GS-AP-MW-17V	9/24/2019 11:17	Oxidation Reduction Potention	-156.38	mv
GS-AP-MW-17V	9/24/2019 11:17	pH	7.58	pH
GS-AP-MW-17V	9/24/2019 11:17	Temperature	17.78	C
GS-AP-MW-17V	9/24/2019 11:17	Turbidity	1.19	NTU
GS-AP-MW-17V	9/24/2019 11:22	Conductivity	587.35	uS/cm
GS-AP-MW-17V	9/24/2019 11:22	DO	0.18	mg/L
GS-AP-MW-17V	9/24/2019 11:22	Depth to Water Detail	131.71	ft
GS-AP-MW-17V	9/24/2019 11:22	Oxidation Reduction Potention	-153.53	mv
GS-AP-MW-17V	9/24/2019 11:22	pH	7.62	pH
GS-AP-MW-17V	9/24/2019 11:22	Temperature	17.76	C
GS-AP-MW-17V	9/24/2019 11:22	Turbidity	1.08	NTU
GS-AP-MW-17V	9/24/2019 11:27	Conductivity	586.16	uS/cm
GS-AP-MW-17V	9/24/2019 11:27	DO	0.35	mg/L
GS-AP-MW-17V	9/24/2019 11:27	Depth to Water Detail	131.85	ft

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-17V	9/24/2019 11:27	Oxidation Reduction Potention	-152.52	mv
GS-AP-MW-17V	9/24/2019 11:27	pH	7.66	pH
GS-AP-MW-17V	9/24/2019 11:27	Temperature	19.5	C
GS-AP-MW-17V	9/24/2019 11:27	Turbidity	1.14	NTU
GS-AP-MW-17V	9/24/2019 11:32	Conductivity	590.8	uS/cm
GS-AP-MW-17V	9/24/2019 11:32	DO	0.43	mg/L
GS-AP-MW-17V	9/24/2019 11:32	Depth to Water Detail	131.98	ft
GS-AP-MW-17V	9/24/2019 11:32	Oxidation Reduction Potention	-151.6	mv
GS-AP-MW-17V	9/24/2019 11:32	pH	7.65	pH
GS-AP-MW-17V	9/24/2019 11:32	Temperature	19.64	C
GS-AP-MW-17V	9/24/2019 11:32	Turbidity	1.31	NTU
GS-AP-MW-17V	9/24/2019 11:37	Conductivity	597.11	uS/cm
GS-AP-MW-17V	9/24/2019 11:37	DO	0.52	mg/L
GS-AP-MW-17V	9/24/2019 11:37	Depth to Water Detail	132.13	ft
GS-AP-MW-17V	9/24/2019 11:37	Oxidation Reduction Potention	-149.84	mv
GS-AP-MW-17V	9/24/2019 11:37	pH	7.63	pH
GS-AP-MW-17V	9/24/2019 11:37	Temperature	19.63	C
GS-AP-MW-17V	9/24/2019 11:37	Turbidity	1.21	NTU
GS-AP-MW-17V	9/24/2019 11:42	Conductivity	601.05	uS/cm
GS-AP-MW-17V	9/24/2019 11:42	DO	0.57	mg/L
GS-AP-MW-17V	9/24/2019 11:42	Depth to Water Detail	132.26	ft
GS-AP-MW-17V	9/24/2019 11:42	Oxidation Reduction Potention	-151.16	mv
GS-AP-MW-17V	9/24/2019 11:42	pH	7.65	pH
GS-AP-MW-17V	9/24/2019 11:42	Temperature	19.49	C
GS-AP-MW-17V	9/24/2019 11:42	Turbidity	1.24	NTU
GS-AP-MW-17V	9/24/2019 11:47	Conductivity	602.84	uS/cm
GS-AP-MW-17V	9/24/2019 11:47	DO	0.56	mg/L
GS-AP-MW-17V	9/24/2019 11:47	Depth to Water Detail	132.41	ft
GS-AP-MW-17V	9/24/2019 11:47	Oxidation Reduction Potention	-152.12	mv
GS-AP-MW-17V	9/24/2019 11:47	pH	7.65	pH
GS-AP-MW-17V	9/24/2019 11:47	Temperature	19.44	C
GS-AP-MW-17V	9/24/2019 11:47	Turbidity	1.35	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-19	9/24/2019 15:31	Conductivity	499.57	uS/cm
GS-AP-MW-19	9/24/2019 15:31	DO	0.49	mg/L
GS-AP-MW-19	9/24/2019 15:31	Depth to Water Detail	112.82	ft
GS-AP-MW-19	9/24/2019 15:31	Oxidation Reduction Potention	-47.22	mv
GS-AP-MW-19	9/24/2019 15:31	pH	8.03	pH
GS-AP-MW-19	9/24/2019 15:31	Temperature	19.61	C
GS-AP-MW-19	9/24/2019 15:31	Turbidity	0.76	NTU
GS-AP-MW-19	9/24/2019 15:36	Conductivity	498.02	uS/cm
GS-AP-MW-19	9/24/2019 15:36	DO	0.26	mg/L
GS-AP-MW-19	9/24/2019 15:36	Depth to Water Detail	112.89	ft
GS-AP-MW-19	9/24/2019 15:36	Oxidation Reduction Potention	-58.17	mv
GS-AP-MW-19	9/24/2019 15:36	pH	7.83	pH
GS-AP-MW-19	9/24/2019 15:36	Temperature	18.96	C
GS-AP-MW-19	9/24/2019 15:36	Turbidity	0.49	NTU
GS-AP-MW-19	9/24/2019 15:41	Conductivity	498.94	uS/cm
GS-AP-MW-19	9/24/2019 15:41	DO	0.23	mg/L
GS-AP-MW-19	9/24/2019 15:41	Depth to Water Detail	112.89	ft
GS-AP-MW-19	9/24/2019 15:41	Oxidation Reduction Potention	-72.23	mv
GS-AP-MW-19	9/24/2019 15:41	pH	7.77	pH
GS-AP-MW-19	9/24/2019 15:41	Temperature	18.9	C
GS-AP-MW-19	9/24/2019 15:41	Turbidity	0.46	NTU
GS-AP-MW-19	9/24/2019 15:46	Conductivity	508.01	uS/cm
GS-AP-MW-19	9/24/2019 15:46	DO	0.22	mg/L
GS-AP-MW-19	9/24/2019 15:46	Depth to Water Detail	112.89	ft
GS-AP-MW-19	9/24/2019 15:46	Oxidation Reduction Potention	-91.5	mv
GS-AP-MW-19	9/24/2019 15:46	pH	7.8	pH
GS-AP-MW-19	9/24/2019 15:46	Temperature	18.95	C
GS-AP-MW-19	9/24/2019 15:46	Turbidity	0.73	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-23H	9/23/2019 15:54	Conductivity	776.74	uS/cm
GS-AP-MW-23H	9/23/2019 15:54	DO	0.24	mg/L
GS-AP-MW-23H	9/23/2019 15:54	Depth to Water Detail	29.81	ft
GS-AP-MW-23H	9/23/2019 15:54	Oxidation Reduction Potention	8.98	mv
GS-AP-MW-23H	9/23/2019 15:54	pH	5.77	pH
GS-AP-MW-23H	9/23/2019 15:54	Temperature	18.96	C
GS-AP-MW-23H	9/23/2019 15:54	Turbidity	7.27	NTU
GS-AP-MW-23H	9/23/2019 15:59	Conductivity	775.92	uS/cm
GS-AP-MW-23H	9/23/2019 15:59	DO	0.23	mg/L
GS-AP-MW-23H	9/23/2019 15:59	Depth to Water Detail	29.82	ft
GS-AP-MW-23H	9/23/2019 15:59	Oxidation Reduction Potention	10.41	mv
GS-AP-MW-23H	9/23/2019 15:59	pH	5.72	pH
GS-AP-MW-23H	9/23/2019 15:59	Temperature	18.75	C
GS-AP-MW-23H	9/23/2019 15:59	Turbidity	3.24	NTU
GS-AP-MW-23H	9/23/2019 16:04	Conductivity	788.2	uS/cm
GS-AP-MW-23H	9/23/2019 16:04	DO	0.22	mg/L
GS-AP-MW-23H	9/23/2019 16:04	Depth to Water Detail	29.82	ft
GS-AP-MW-23H	9/23/2019 16:04	Oxidation Reduction Potention	6.69	mv
GS-AP-MW-23H	9/23/2019 16:04	pH	5.73	pH
GS-AP-MW-23H	9/23/2019 16:04	Temperature	18.73	C
GS-AP-MW-23H	9/23/2019 16:04	Turbidity	1.81	NTU
GS-AP-MW-23H	9/23/2019 16:09	Conductivity	790.1	uS/cm
GS-AP-MW-23H	9/23/2019 16:09	DO	0.21	mg/L
GS-AP-MW-23H	9/23/2019 16:09	Depth to Water Detail	29.82	ft
GS-AP-MW-23H	9/23/2019 16:09	Oxidation Reduction Potention	3.02	mv
GS-AP-MW-23H	9/23/2019 16:09	pH	5.76	pH
GS-AP-MW-23H	9/23/2019 16:09	Temperature	18.55	C
GS-AP-MW-23H	9/23/2019 16:09	Turbidity	1.31	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-24H	9/24/2019 17:45	Conductivity	433.41	uS/cm
GS-AP-MW-24H	9/24/2019 17:45	DO	0.26	mg/L
GS-AP-MW-24H	9/24/2019 17:45	Depth to Water Detail	6.5	ft
GS-AP-MW-24H	9/24/2019 17:45	Oxidation Reduction Potention	-68.42	mv
GS-AP-MW-24H	9/24/2019 17:45	pH	6.9	pH
GS-AP-MW-24H	9/24/2019 17:45	Temperature	19.95	C
GS-AP-MW-24H	9/24/2019 17:45	Turbidity	21.8	NTU
GS-AP-MW-24H	9/24/2019 17:50	Conductivity	432.44	uS/cm
GS-AP-MW-24H	9/24/2019 17:50	DO	0.23	mg/L
GS-AP-MW-24H	9/24/2019 17:50	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 17:50	Oxidation Reduction Potention	-57.3	mv
GS-AP-MW-24H	9/24/2019 17:50	pH	6.67	pH
GS-AP-MW-24H	9/24/2019 17:50	Temperature	19.9	C
GS-AP-MW-24H	9/24/2019 17:50	Turbidity	17.3	NTU
GS-AP-MW-24H	9/24/2019 17:55	Conductivity	430.88	uS/cm
GS-AP-MW-24H	9/24/2019 17:55	DO	0.22	mg/L
GS-AP-MW-24H	9/24/2019 17:55	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 17:55	Oxidation Reduction Potention	-53.19	mv
GS-AP-MW-24H	9/24/2019 17:55	pH	6.57	pH
GS-AP-MW-24H	9/24/2019 17:55	Temperature	19.82	C
GS-AP-MW-24H	9/24/2019 17:55	Turbidity	14.7	NTU
GS-AP-MW-24H	9/24/2019 18:00	Conductivity	429.99	uS/cm
GS-AP-MW-24H	9/24/2019 18:00	DO	0.21	mg/L
GS-AP-MW-24H	9/24/2019 18:00	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 18:00	Oxidation Reduction Potention	-52.82	mv
GS-AP-MW-24H	9/24/2019 18:00	pH	6.56	pH
GS-AP-MW-24H	9/24/2019 18:00	Temperature	19.75	C
GS-AP-MW-24H	9/24/2019 18:00	Turbidity	14.2	NTU
GS-AP-MW-24H	9/24/2019 18:05	Conductivity	428.76	uS/cm
GS-AP-MW-24H	9/24/2019 18:05	DO	0.21	mg/L
GS-AP-MW-24H	9/24/2019 18:05	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 18:05	Oxidation Reduction Potention	-53.04	mv
GS-AP-MW-24H	9/24/2019 18:05	pH	6.57	pH
GS-AP-MW-24H	9/24/2019 18:05	Temperature	19.65	C
GS-AP-MW-24H	9/24/2019 18:05	Turbidity	12.8	NTU
GS-AP-MW-24H	9/24/2019 18:10	Conductivity	427.24	uS/cm
GS-AP-MW-24H	9/24/2019 18:10	DO	0.21	mg/L
GS-AP-MW-24H	9/24/2019 18:10	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 18:10	Oxidation Reduction Potention	-53.39	mv
GS-AP-MW-24H	9/24/2019 18:10	pH	6.57	pH
GS-AP-MW-24H	9/24/2019 18:10	Temperature	19.59	C
GS-AP-MW-24H	9/24/2019 18:10	Turbidity	12.3	NTU
GS-AP-MW-24H	9/24/2019 18:15	Conductivity	427.91	uS/cm
GS-AP-MW-24H	9/24/2019 18:15	DO	0.21	mg/L
GS-AP-MW-24H	9/24/2019 18:15	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 18:15	Oxidation Reduction Potention	-54.05	mv

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-24H	9/24/2019 18:15	pH	6.58	pH
GS-AP-MW-24H	9/24/2019 18:15	Temperature	19.52	C
GS-AP-MW-24H	9/24/2019 18:15	Turbidity	10.75	NTU
GS-AP-MW-24H	9/24/2019 18:20	Conductivity	427.42	uS/cm
GS-AP-MW-24H	9/24/2019 18:20	DO	0.2	mg/L
GS-AP-MW-24H	9/24/2019 18:20	Depth to Water Detail	6.51	ft
GS-AP-MW-24H	9/24/2019 18:20	Oxidation Reduction Potention	-54.07	mv
GS-AP-MW-24H	9/24/2019 18:20	pH	6.59	pH
GS-AP-MW-24H	9/24/2019 18:20	Temperature	19.49	C
GS-AP-MW-24H	9/24/2019 18:20	Turbidity	9.47	NTU

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	9/25/2019 10:30	Conductivity	733.37	uS/cm
GS-AP-MW-28H	9/25/2019 10:30	DO	2.09	mg/L
GS-AP-MW-28H	9/25/2019 10:30	Depth to Water Detail	164.7	ft
GS-AP-MW-28H	9/25/2019 10:30	Oxidation Reduction Potention	-53.56	mv
GS-AP-MW-28H	9/25/2019 10:30	pH	8.05	pH
GS-AP-MW-28H	9/25/2019 10:30	Temperature	20.62	C
GS-AP-MW-28H	9/25/2019 10:30	Turbidity	24.1	NTU
GS-AP-MW-28H	9/25/2019 10:35	Conductivity	722.62	uS/cm
GS-AP-MW-28H	9/25/2019 10:35	DO	0.88	mg/L
GS-AP-MW-28H	9/25/2019 10:35	Depth to Water Detail	164.7	ft
GS-AP-MW-28H	9/25/2019 10:35	Oxidation Reduction Potention	-148.48	mv
GS-AP-MW-28H	9/25/2019 10:35	pH	8.25	pH
GS-AP-MW-28H	9/25/2019 10:35	Temperature	20.72	C
GS-AP-MW-28H	9/25/2019 10:35	Turbidity	14.7	NTU
GS-AP-MW-28H	9/25/2019 10:40	Conductivity	717.28	uS/cm
GS-AP-MW-28H	9/25/2019 10:40	DO	0.58	mg/L
GS-AP-MW-28H	9/25/2019 10:40	Depth to Water Detail	164.7	ft
GS-AP-MW-28H	9/25/2019 10:40	Oxidation Reduction Potention	-0.9	mv
GS-AP-MW-28H	9/25/2019 10:40	pH	8.39	pH
GS-AP-MW-28H	9/25/2019 10:40	Temperature	20.84	C
GS-AP-MW-28H	9/25/2019 10:40	Turbidity	11.7	NTU
GS-AP-MW-28H	9/25/2019 10:45	Conductivity	712.91	uS/cm
GS-AP-MW-28H	9/25/2019 10:45	DO	0.46	mg/L
GS-AP-MW-28H	9/25/2019 10:45	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 10:45	Oxidation Reduction Potention	-129.36	mv
GS-AP-MW-28H	9/25/2019 10:45	pH	8.47	pH
GS-AP-MW-28H	9/25/2019 10:45	Temperature	20.73	C
GS-AP-MW-28H	9/25/2019 10:45	Turbidity	11.1	NTU
GS-AP-MW-28H	9/25/2019 10:50	Conductivity	703.95	uS/cm
GS-AP-MW-28H	9/25/2019 10:50	DO	0.41	mg/L
GS-AP-MW-28H	9/25/2019 10:50	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 10:50	Oxidation Reduction Potention	18.59	mv
GS-AP-MW-28H	9/25/2019 10:50	pH	8.52	pH
GS-AP-MW-28H	9/25/2019 10:50	Temperature	20.9	C
GS-AP-MW-28H	9/25/2019 10:50	Turbidity	13.4	NTU
GS-AP-MW-28H	9/25/2019 10:55	Conductivity	702.13	uS/cm
GS-AP-MW-28H	9/25/2019 10:55	DO	0.37	mg/L
GS-AP-MW-28H	9/25/2019 10:55	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 10:55	Oxidation Reduction Potention	43.73	mv
GS-AP-MW-28H	9/25/2019 10:55	pH	8.53	pH
GS-AP-MW-28H	9/25/2019 10:55	Temperature	21.09	C
GS-AP-MW-28H	9/25/2019 10:55	Turbidity	11.3	NTU
GS-AP-MW-28H	9/25/2019 11:00	Conductivity	686.2	uS/cm
GS-AP-MW-28H	9/25/2019 11:00	DO	0.35	mg/L
GS-AP-MW-28H	9/25/2019 11:00	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:00	Oxidation Reduction Potention	21.97	mv

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	9/25/2019 11:00	pH	8.55	pH
GS-AP-MW-28H	9/25/2019 11:00	Temperature	20.87	C
GS-AP-MW-28H	9/25/2019 11:00	Turbidity	7.36	NTU
GS-AP-MW-28H	9/25/2019 11:05	Conductivity	685.77	uS/cm
GS-AP-MW-28H	9/25/2019 11:05	DO	0.32	mg/L
GS-AP-MW-28H	9/25/2019 11:05	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:05	Oxidation Reduction Potention	-214.38	mv
GS-AP-MW-28H	9/25/2019 11:05	pH	8.56	pH
GS-AP-MW-28H	9/25/2019 11:05	Temperature	21	C
GS-AP-MW-28H	9/25/2019 11:05	Turbidity	7.77	NTU
GS-AP-MW-28H	9/25/2019 11:10	Conductivity	670.31	uS/cm
GS-AP-MW-28H	9/25/2019 11:10	DO	0.32	mg/L
GS-AP-MW-28H	9/25/2019 11:10	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:10	Oxidation Reduction Potention	-221.25	mv
GS-AP-MW-28H	9/25/2019 11:10	pH	8.57	pH
GS-AP-MW-28H	9/25/2019 11:10	Temperature	21.23	C
GS-AP-MW-28H	9/25/2019 11:10	Turbidity	7.37	NTU
GS-AP-MW-28H	9/25/2019 11:15	Conductivity	637.35	uS/cm
GS-AP-MW-28H	9/25/2019 11:15	DO	0.31	mg/L
GS-AP-MW-28H	9/25/2019 11:15	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:15	Oxidation Reduction Potention	-229.67	mv
GS-AP-MW-28H	9/25/2019 11:15	pH	8.56	pH
GS-AP-MW-28H	9/25/2019 11:15	Temperature	21.35	C
GS-AP-MW-28H	9/25/2019 11:15	Turbidity	6.7	NTU
GS-AP-MW-28H	9/25/2019 11:20	Conductivity	625.98	uS/cm
GS-AP-MW-28H	9/25/2019 11:20	DO	0.34	mg/L
GS-AP-MW-28H	9/25/2019 11:20	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:20	Oxidation Reduction Potention	-229.9	mv
GS-AP-MW-28H	9/25/2019 11:20	pH	8.57	pH
GS-AP-MW-28H	9/25/2019 11:20	Temperature	21.88	C
GS-AP-MW-28H	9/25/2019 11:20	Turbidity	5.96	NTU
GS-AP-MW-28H	9/25/2019 11:25	Conductivity	634.14	uS/cm
GS-AP-MW-28H	9/25/2019 11:25	DO	0.46	mg/L
GS-AP-MW-28H	9/25/2019 11:25	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:25	Oxidation Reduction Potention	-201.36	mv
GS-AP-MW-28H	9/25/2019 11:25	pH	8.55	pH
GS-AP-MW-28H	9/25/2019 11:25	Temperature	24.68	C
GS-AP-MW-28H	9/25/2019 11:25	Turbidity	5.47	NTU
GS-AP-MW-28H	9/25/2019 11:30	Conductivity	658.13	uS/cm
GS-AP-MW-28H	9/25/2019 11:30	DO	0.35	mg/L
GS-AP-MW-28H	9/25/2019 11:30	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:30	Oxidation Reduction Potention	-227.21	mv
GS-AP-MW-28H	9/25/2019 11:30	pH	8.57	pH
GS-AP-MW-28H	9/25/2019 11:30	Temperature	22.1	C
GS-AP-MW-28H	9/25/2019 11:30	Turbidity	5.89	NTU
GS-AP-MW-28H	9/25/2019 11:35	Conductivity	635.22	uS/cm

**Alabama Power Company
Plant Gorgas Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GS-AP-MW-28H	9/25/2019 11:35	DO	0.32	mg/L
GS-AP-MW-28H	9/25/2019 11:35	Depth to Water Detail	164.72	ft
GS-AP-MW-28H	9/25/2019 11:35	Oxidation Reduction Potention	-235.98	mv
GS-AP-MW-28H	9/25/2019 11:35	pH	8.57	pH
GS-AP-MW-28H	9/25/2019 11:35	Temperature	21.58	C
GS-AP-MW-28H	9/25/2019 11:35	Turbidity	5.92	NTU

Appendix C

1st
Semi-Annual
Monitoring Event

Interwell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	MR-AP-MW-2	0.1	n/a	5/1/2019	0.24	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3D	0.1	n/a	4/29/2019	0.407	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-4	0.1	n/a	4/29/2019	0.45	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-5	0.1	n/a	4/23/2019	0.846	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-6	0.1	n/a	4/23/2019	0.862	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7D	0.1	n/a	4/24/2019	0.756	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7S	0.1	n/a	4/24/2019	0.73	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8D	0.1	n/a	4/24/2019	0.893	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8S	0.1	n/a	4/24/2019	1.53	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9D	0.1	n/a	4/24/2019	0.758	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9S	0.1	n/a	4/24/2019	0.757	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-10	0.1	n/a	4/24/2019	3.61	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-12	0.1	n/a	10/8/2018	6.35	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-15	0.1	n/a	4/24/2019	0.243	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-16	0.1	n/a	4/24/2019	2.41	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-PZ-5	0.1	n/a	4/23/2019	0.372	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-2	48.1	n/a	5/1/2019	272	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-3D	48.1	n/a	4/29/2019	186	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-4	48.1	n/a	4/29/2019	259	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-5	48.1	n/a	4/23/2019	329	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-6	48.1	n/a	4/23/2019	167	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7D	48.1	n/a	4/24/2019	140	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7S	48.1	n/a	4/24/2019	103	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8D	48.1	n/a	4/24/2019	54.1	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8S	48.1	n/a	4/24/2019	53.6	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9D	48.1	n/a	4/24/2019	66	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9S	48.1	n/a	4/24/2019	325	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-10	48.1	n/a	4/24/2019	201	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-11	48.1	n/a	5/1/2019	136	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-12	48.1	n/a	10/8/2018	174	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-16	48.1	n/a	4/24/2019	127	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Chloride (mg/L)	MR-AP-MW-1	4.007	n/a	5/1/2019	15	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-2	4.007	n/a	5/1/2019	5.04	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3D	4.007	n/a	4/29/2019	40.7	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3S	4.007	n/a	4/22/2019	242	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-4	4.007	n/a	4/29/2019	40.8	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-5	4.007	n/a	4/23/2019	43.8	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-6	4.007	n/a	4/23/2019	33	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7D	4.007	n/a	4/24/2019	28	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7S	4.007	n/a	4/24/2019	22.9	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8D	4.007	n/a	4/24/2019	11.2	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8S	4.007	n/a	4/24/2019	4.06	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9D	4.007	n/a	4/24/2019	11.2	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9S	4.007	n/a	4/24/2019	5.42	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-10	4.007	n/a	4/24/2019	7.66	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-11	4.007	n/a	5/1/2019	6.46	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-12	4.007	n/a	10/8/2018	6.9	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13D	4.007	n/a	4/24/2019	14.7	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13S	4.007	n/a	4/24/2019	9.4	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-14	4.007	n/a	4/24/2019	7.29	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-15	4.007	n/a	4/24/2019	18.3	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-16	4.007	n/a	4/24/2019	12	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-PZ-5	4.007	n/a	4/23/2019	24.9	Yes	22	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3D	0.2309	n/a	4/29/2019	0.343	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3S	0.2309	n/a	4/22/2019	0.335	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-5	0.2309	n/a	4/23/2019	0.428	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7S	0.2309	n/a	4/24/2019	0.296	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8D	0.2309	n/a	4/24/2019	0.258	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8S	0.2309	n/a	4/24/2019	0.531	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-9S	0.2309	n/a	4/24/2019	0.277	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-10	0.2309	n/a	4/24/2019	0.433	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-12	0.2309	n/a	10/8/2018	0.85	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-16	0.2309	n/a	4/24/2019	0.236	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-PZ-5	0.2309	n/a	4/23/2019	1.33	Yes	24	0	No	0.000342	Param Inter 1 of 2
pH (pH)	MR-AP-MW-1	6.85	5.67	5/1/2019	11.01	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-3S	6.85	5.67	4/22/2019	9.17	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-5	6.85	5.67	4/23/2019	7.03	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-9D	6.85	5.67	4/24/2019	5.62	Yes	24	0	n/a	0.005026	NP Inter (normality) ...

Interwell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (pH)	MR-AP-MW-10	6.85	5.67	4/24/2019	6.91	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-13S	6.85	5.67	4/24/2019	5.65	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-PZ-5	6.85	5.67	4/23/2019	8.18	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-1	12.1	n/a	5/1/2019	309	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-2	12.1	n/a	5/1/2019	1580	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3D	12.1	n/a	4/29/2019	484	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3S	12.1	n/a	4/22/2019	249	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-4	12.1	n/a	4/29/2019	770	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-5	12.1	n/a	4/23/2019	898	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-6	12.1	n/a	4/23/2019	638	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7D	12.1	n/a	4/24/2019	364	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7S	12.1	n/a	4/24/2019	239	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8D	12.1	n/a	4/24/2019	461	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8S	12.1	n/a	4/24/2019	315	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9D	12.1	n/a	4/24/2019	486	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9S	12.1	n/a	4/24/2019	513	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-10	12.1	n/a	4/24/2019	950	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-11	12.1	n/a	5/1/2019	549	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-12	12.1	n/a	10/8/2018	1500	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13D	12.1	n/a	4/24/2019	92.4	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13S	12.1	n/a	4/24/2019	131	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-14	12.1	n/a	4/24/2019	47.2	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-15	12.1	n/a	4/24/2019	91.9	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-16	12.1	n/a	4/24/2019	406	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-1	226	n/a	5/1/2019	694	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-2	226	n/a	5/1/2019	2370	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3D	226	n/a	4/29/2019	956	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3S	226	n/a	4/22/2019	930	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-4	226	n/a	4/29/2019	1150	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-5	226	n/a	4/23/2019	1370	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-6	226	n/a	4/23/2019	882	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7D	226	n/a	4/24/2019	748	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7S	226	n/a	4/24/2019	574	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8D	226	n/a	4/24/2019	724	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8S	226	n/a	4/24/2019	596	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9D	226	n/a	4/24/2019	802	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9S	226	n/a	4/24/2019	838	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-10	226	n/a	4/24/2019	1460	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-11	226	n/a	5/1/2019	996	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-12	226	n/a	10/8/2018	2630	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13D	226	n/a	4/24/2019	323	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13S	226	n/a	4/24/2019	306	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-15	226	n/a	4/24/2019	234	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-16	226	n/a	4/24/2019	618	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-PZ-5	226	n/a	4/23/2019	478	Yes	22	0	n/a	0.002895	NP Inter (normality) ...

Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	MR-AP-MW-1	0.1	n/a	5/1/2019	0.1015ND	No	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-2	0.1	n/a	5/1/2019	0.24	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3D	0.1	n/a	4/29/2019	0.407	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3S	0.1	n/a	4/22/2019	0.183	No	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-4	0.1	n/a	4/29/2019	0.45	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-5	0.1	n/a	4/23/2019	0.846	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-6	0.1	n/a	4/23/2019	0.862	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7D	0.1	n/a	4/24/2019	0.756	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7S	0.1	n/a	4/24/2019	0.73	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8D	0.1	n/a	4/24/2019	0.893	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8S	0.1	n/a	4/24/2019	1.53	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9D	0.1	n/a	4/24/2019	0.758	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9S	0.1	n/a	4/24/2019	0.757	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-10	0.1	n/a	4/24/2019	3.61	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-11	0.1	n/a	5/1/2019	0.1015ND	No	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-12	0.1	n/a	10/8/2018	6.35	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-13D	0.1	n/a	4/24/2019	0.0987	No	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-13S	0.1	n/a	4/24/2019	0.137	No	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-14	0.1	n/a	4/24/2019	0.121	No	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-15	0.1	n/a	4/24/2019	0.243	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-16	0.1	n/a	4/24/2019	2.41	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Boron (mg/L)	MR-AP-PZ-5	0.1	n/a	4/23/2019	0.372	Yes	22	36.36	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-1	48.1	n/a	5/1/2019	47.9	No	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-2	48.1	n/a	5/1/2019	272	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-3D	48.1	n/a	4/29/2019	186	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-3S	48.1	n/a	4/22/2019	16.8	No	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-4	48.1	n/a	4/29/2019	259	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-5	48.1	n/a	4/23/2019	329	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-6	48.1	n/a	4/23/2019	167	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7D	48.1	n/a	4/24/2019	140	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7S	48.1	n/a	4/24/2019	103	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8D	48.1	n/a	4/24/2019	54.1	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8S	48.1	n/a	4/24/2019	53.6	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9D	48.1	n/a	4/24/2019	66	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9S	48.1	n/a	4/24/2019	325	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-10	48.1	n/a	4/24/2019	201	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-11	48.1	n/a	5/1/2019	136	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-12	48.1	n/a	10/8/2018	174	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-13D	48.1	n/a	4/24/2019	46	No	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-13S	48.1	n/a	4/24/2019	16	No	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-14	48.1	n/a	4/24/2019	33.6	No	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-15	48.1	n/a	4/24/2019	39	No	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-16	48.1	n/a	4/24/2019	127	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-PZ-5	48.1	n/a	4/23/2019	11.9	No	22	0	n/a	0.002895	NP Inter (normality) ...
Chloride (mg/L)	MR-AP-MW-1	4.007	n/a	5/1/2019	15	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-2	4.007	n/a	5/1/2019	5.04	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3D	4.007	n/a	4/29/2019	40.7	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3S	4.007	n/a	4/22/2019	242	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-4	4.007	n/a	4/29/2019	40.8	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-5	4.007	n/a	4/23/2019	43.8	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-6	4.007	n/a	4/23/2019	33	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7D	4.007	n/a	4/24/2019	28	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7S	4.007	n/a	4/24/2019	22.9	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8D	4.007	n/a	4/24/2019	11.2	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8S	4.007	n/a	4/24/2019	4.06	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9D	4.007	n/a	4/24/2019	11.2	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9S	4.007	n/a	4/24/2019	5.42	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-10	4.007	n/a	4/24/2019	7.66	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-11	4.007	n/a	5/1/2019	6.46	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-12	4.007	n/a	10/8/2018	6.9	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13D	4.007	n/a	4/24/2019	14.7	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13S	4.007	n/a	4/24/2019	9.4	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-14	4.007	n/a	4/24/2019	7.29	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-15	4.007	n/a	4/24/2019	18.3	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-16	4.007	n/a	4/24/2019	12	Yes	22	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-PZ-5	4.007	n/a	4/23/2019	24.9	Yes	22	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-1	0.2309	n/a	5/1/2019	0.143	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-2	0.2309	n/a	5/1/2019	0.108	No	24	0	No	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	MR-AP-MW-3D	0.2309	n/a	4/29/2019	0.343	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3S	0.2309	n/a	4/22/2019	0.335	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-4	0.2309	n/a	4/29/2019	0.228	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-5	0.2309	n/a	4/23/2019	0.428	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-6	0.2309	n/a	4/23/2019	0.167	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7D	0.2309	n/a	4/24/2019	0.156	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7S	0.2309	n/a	4/24/2019	0.296	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8D	0.2309	n/a	4/24/2019	0.258	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8S	0.2309	n/a	4/24/2019	0.531	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-9D	0.2309	n/a	4/24/2019	0.205	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-9S	0.2309	n/a	4/24/2019	0.277	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-10	0.2309	n/a	4/24/2019	0.433	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-11	0.2309	n/a	5/1/2019	0.118	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-12	0.2309	n/a	10/8/2018	0.85	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-13D	0.2309	n/a	4/24/2019	0.199	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-13S	0.2309	n/a	4/24/2019	0.161	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-14	0.2309	n/a	4/24/2019	0.22	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-15	0.2309	n/a	4/24/2019	0.133	No	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-16	0.2309	n/a	4/24/2019	0.236	Yes	24	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-PZ-5	0.2309	n/a	4/23/2019	1.33	Yes	24	0	No	0.000342	Param Inter 1 of 2
pH (pH)	MR-AP-MW-1	6.85	5.67	5/1/2019	11.01	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-2	6.85	5.67	5/1/2019	6.25	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-3D	6.85	5.67	4/29/2019	6.81	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-3S	6.85	5.67	4/22/2019	9.17	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-4	6.85	5.67	4/29/2019	5.91	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-5	6.85	5.67	4/23/2019	7.03	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-6	6.85	5.67	4/23/2019	6.06	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-7D	6.85	5.67	4/24/2019	6.63	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-7S	6.85	5.67	4/24/2019	6.43	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-8D	6.85	5.67	4/24/2019	5.91	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-8S	6.85	5.67	4/24/2019	6.62	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-9D	6.85	5.67	4/24/2019	5.62	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-9S	6.85	5.67	4/24/2019	5.82	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-10	6.85	5.67	4/24/2019	6.91	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-11	6.85	5.67	5/1/2019	6.64	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-12	6.85	5.67	10/8/2018	6.51	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-13D	6.85	5.67	4/24/2019	6.67	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-13S	6.85	5.67	4/24/2019	5.65	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-14	6.85	5.67	4/24/2019	6.44	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-15	6.85	5.67	4/24/2019	6.46	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-MW-16	6.85	5.67	4/24/2019	6.01	No	24	0	n/a	0.005026	NP Inter (normality) ...
pH (pH)	MR-AP-PZ-5	6.85	5.67	4/23/2019	8.18	Yes	24	0	n/a	0.005026	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-1	12.1	n/a	5/1/2019	309	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-2	12.1	n/a	5/1/2019	1580	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3D	12.1	n/a	4/29/2019	484	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3S	12.1	n/a	4/22/2019	249	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-4	12.1	n/a	4/29/2019	770	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-5	12.1	n/a	4/23/2019	898	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-6	12.1	n/a	4/23/2019	638	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7D	12.1	n/a	4/24/2019	364	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7S	12.1	n/a	4/24/2019	239	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8D	12.1	n/a	4/24/2019	461	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8S	12.1	n/a	4/24/2019	315	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9D	12.1	n/a	4/24/2019	486	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9S	12.1	n/a	4/24/2019	513	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-10	12.1	n/a	4/24/2019	950	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-11	12.1	n/a	5/1/2019	549	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-12	12.1	n/a	10/8/2018	1500	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13D	12.1	n/a	4/24/2019	92.4	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13S	12.1	n/a	4/24/2019	131	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-14	12.1	n/a	4/24/2019	47.2	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-15	12.1	n/a	4/24/2019	91.9	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-16	12.1	n/a	4/24/2019	406	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-PZ-5	12.1	n/a	4/23/2019	8.17	No	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-1	226	n/a	5/1/2019	694	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-2	226	n/a	5/1/2019	2370	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3D	226	n/a	4/29/2019	956	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3S	226	n/a	4/22/2019	930	Yes	22	0	n/a	0.002895	NP Inter (normality) ...

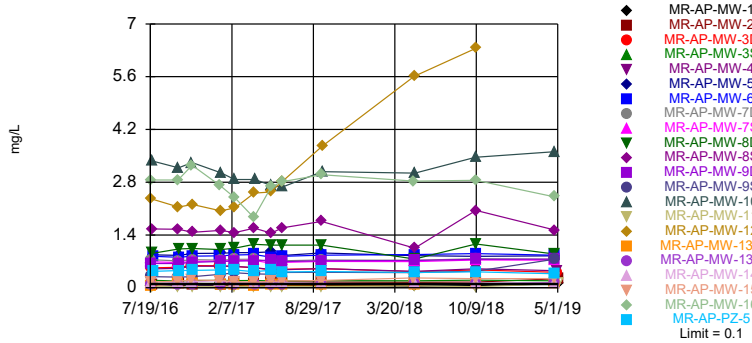
Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
TDS (mg/L)	MR-AP-MW-4	226	n/a	4/29/2019	1150	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-5	226	n/a	4/23/2019	1370	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-6	226	n/a	4/23/2019	882	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7D	226	n/a	4/24/2019	748	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7S	226	n/a	4/24/2019	574	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8D	226	n/a	4/24/2019	724	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8S	226	n/a	4/24/2019	596	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9D	226	n/a	4/24/2019	802	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9S	226	n/a	4/24/2019	838	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-10	226	n/a	4/24/2019	1460	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-11	226	n/a	5/1/2019	996	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-12	226	n/a	10/8/2018	2630	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13D	226	n/a	4/24/2019	323	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13S	226	n/a	4/24/2019	306	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-14	226	n/a	4/24/2019	218	No	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-15	226	n/a	4/24/2019	234	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-16	226	n/a	4/24/2019	618	Yes	22	0	n/a	0.002895	NP Inter (normality) ...
TDS (mg/L)	MR-AP-PZ-5	226	n/a	4/23/2019	478	Yes	22	0	n/a	0.002895	NP Inter (normality) ...

Exceeds Limit: MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-M

Prediction Limit
Interwell Non-parametric

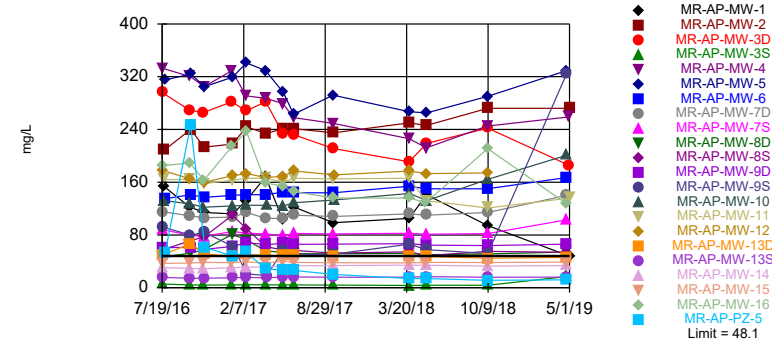


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 36.36% NDs. Annual per-constituent alpha = 0.1198. Individual comparison alpha = 0.002895 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 6/20/2019 8:58 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Exceeds Limit: MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-M

Prediction Limit
Interwell Non-parametric

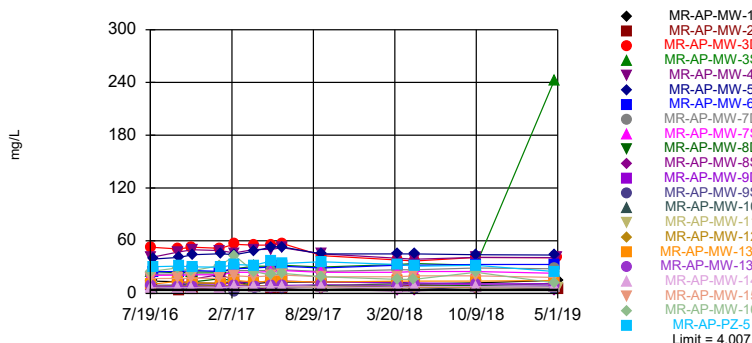


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. Annual per-constituent alpha = 0.1198. Individual comparison alpha = 0.002895 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 6/20/2019 8:58 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-

Prediction Limit
Interwell Parametric

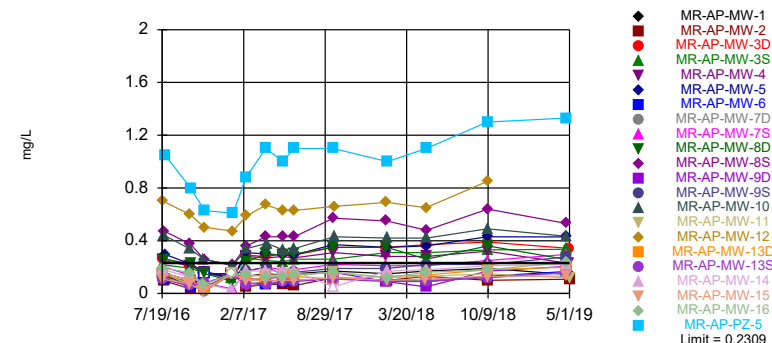


Background Data Summary: Mean=3.181, Std. Dev.=0.3359, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.878. Kappa = 2.458 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 6/20/2019 8:58 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Exceeds Limit: MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-7S...

Prediction Limit
Interwell Parametric

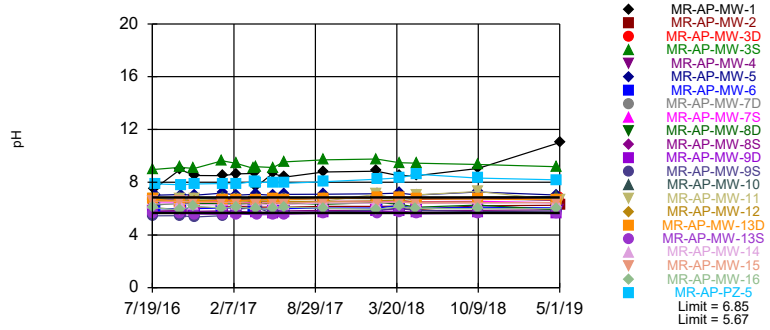


Background Data Summary: Mean=1.169, Std. Dev.=0.0471, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.884. Kappa = 2.421 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 6/20/2019 8:58 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Exceeds Limits: MR-AP-MW-1, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-9D...

Prediction Limit
Interwell Non-parametric

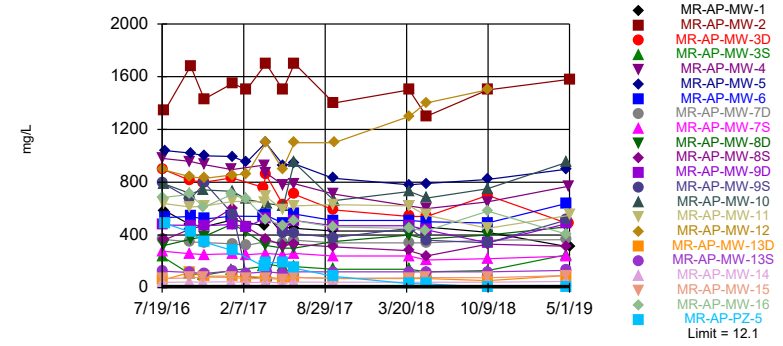


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 24 background values. Annual per-constituent alpha = 0.2096. Individual comparison alpha = 0.005026 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 6/20/2019 8:58 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-

Prediction Limit
Interwell Non-parametric

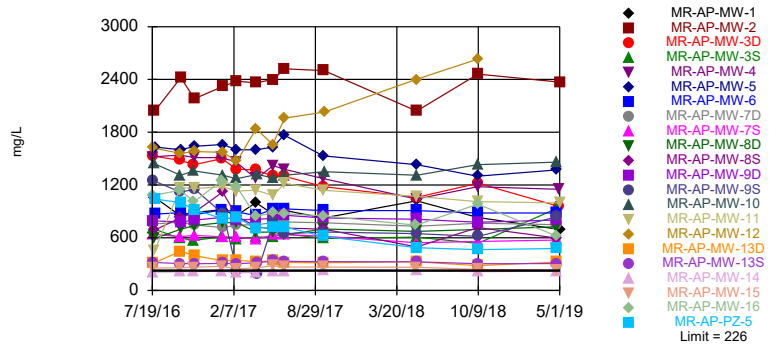


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. Annual per-constituent alpha = 0.1198. Individual comparison alpha = 0.002895 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 6/20/2019 8:59 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-

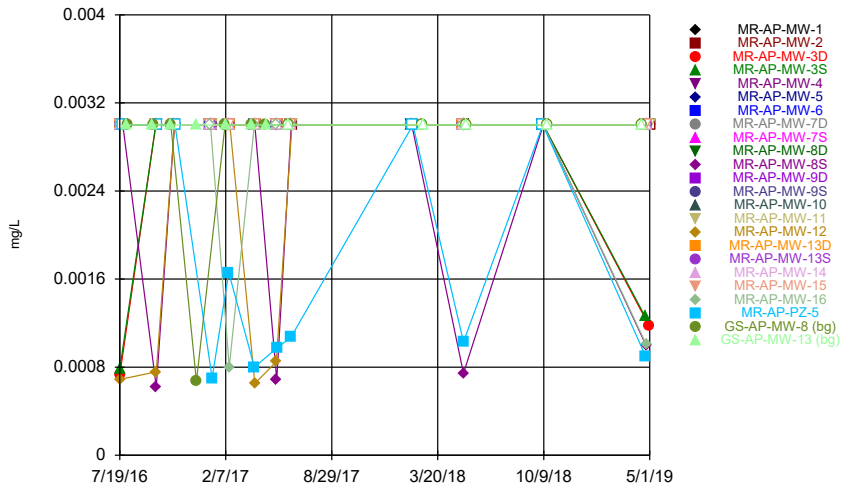
Prediction Limit
Interwell Non-parametric



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 22 background values. Annual per-constituent alpha = 0.1198. Individual comparison alpha = 0.002895 (1 of 2). Comparing 22 points to limit.

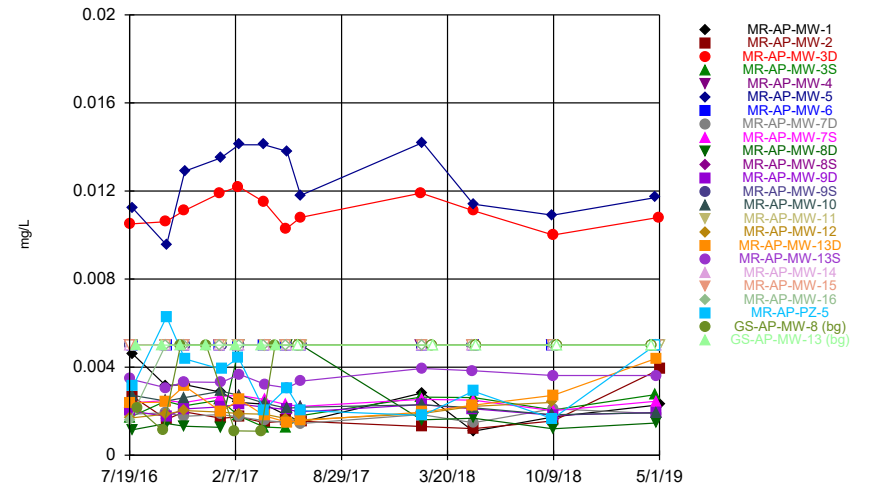
Constituent: TDS Analysis Run 6/20/2019 8:59 AM View: PL's - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



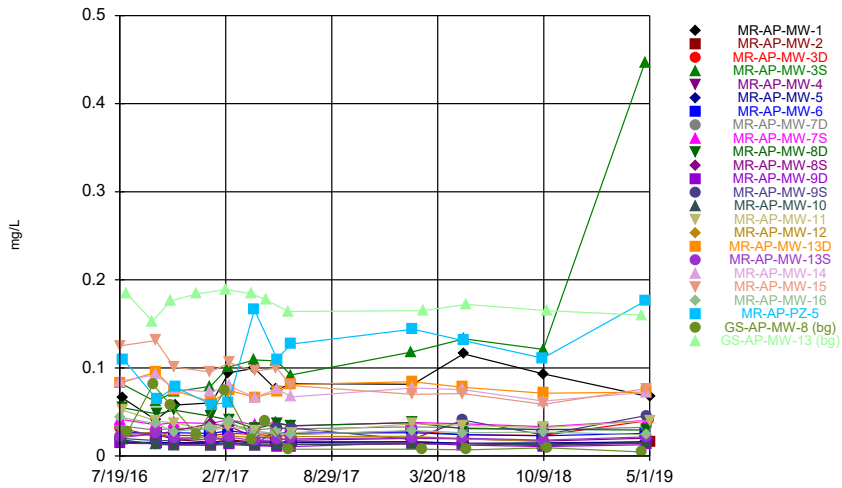
Constituent: Antimony Analysis Run 6/20/2019 9:01 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



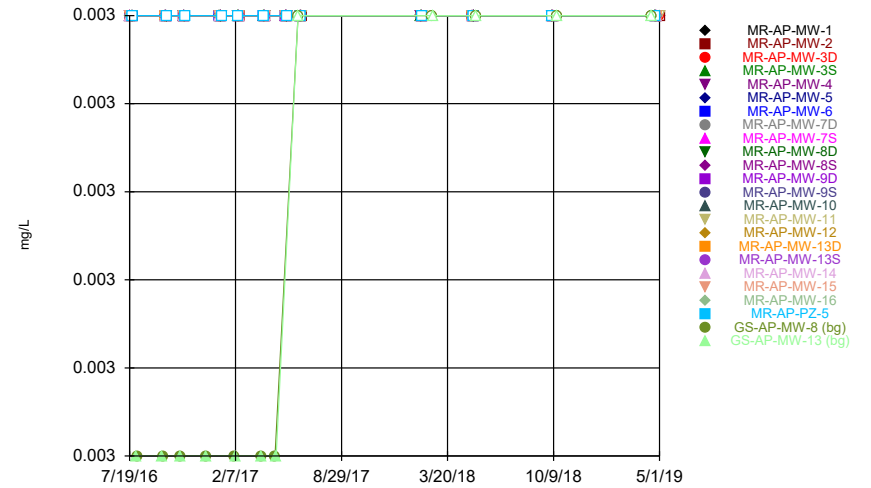
Constituent: Arsenic Analysis Run 6/20/2019 9:01 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



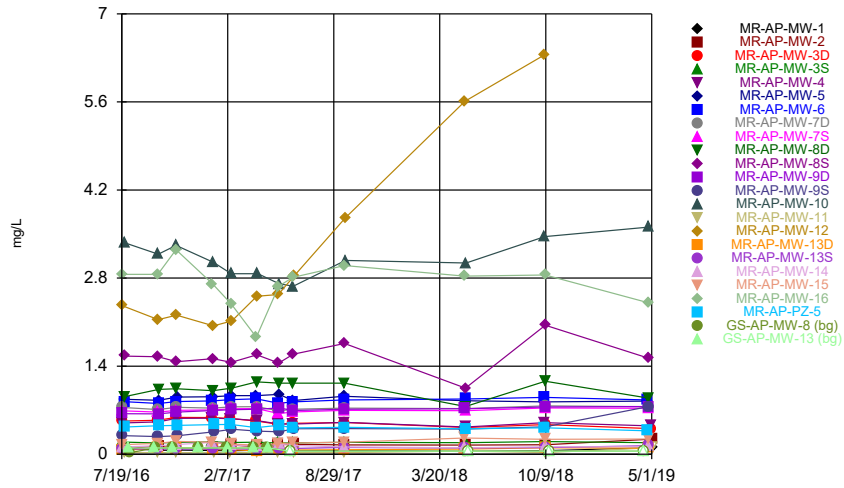
Constituent: Barium Analysis Run 6/20/2019 9:01 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



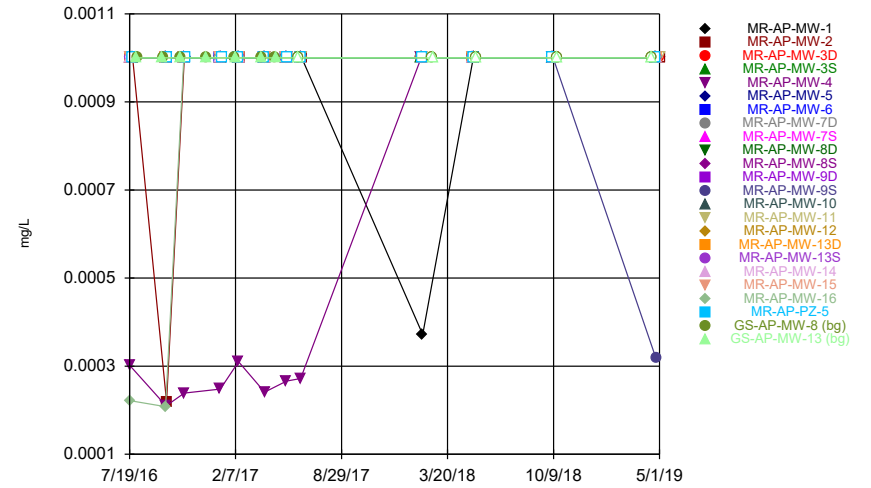
Constituent: Beryllium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



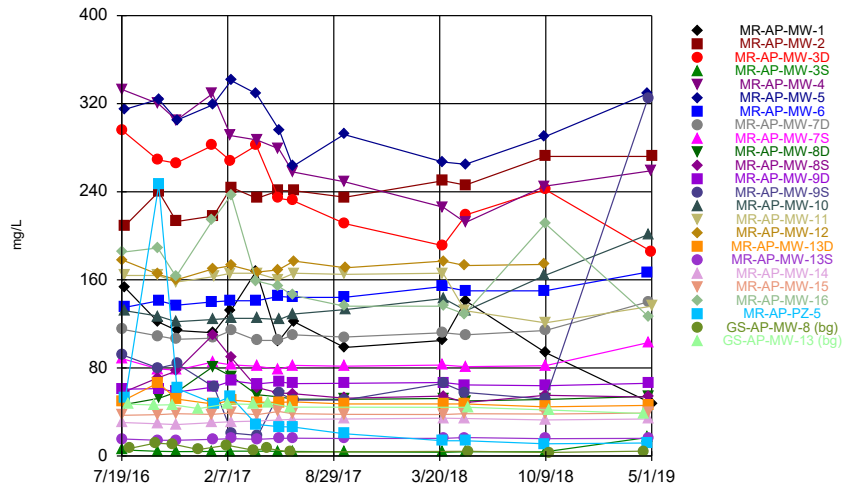
Constituent: Boron Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



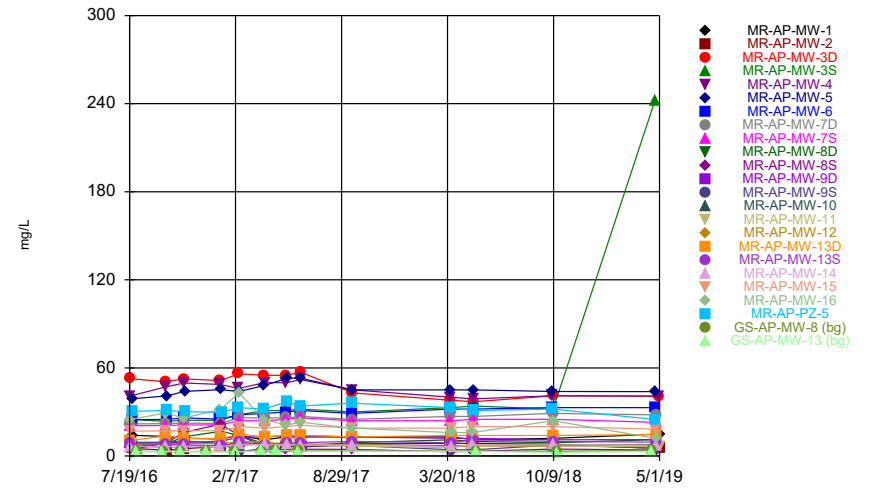
Constituent: Cadmium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



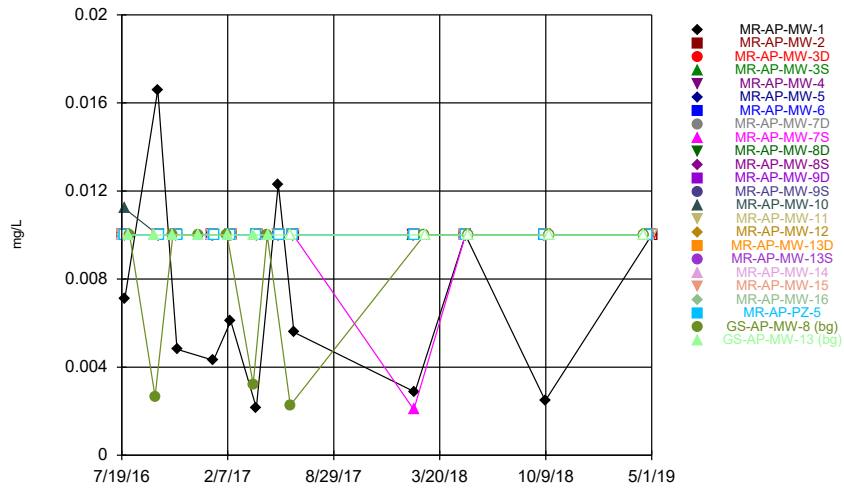
Constituent: Calcium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



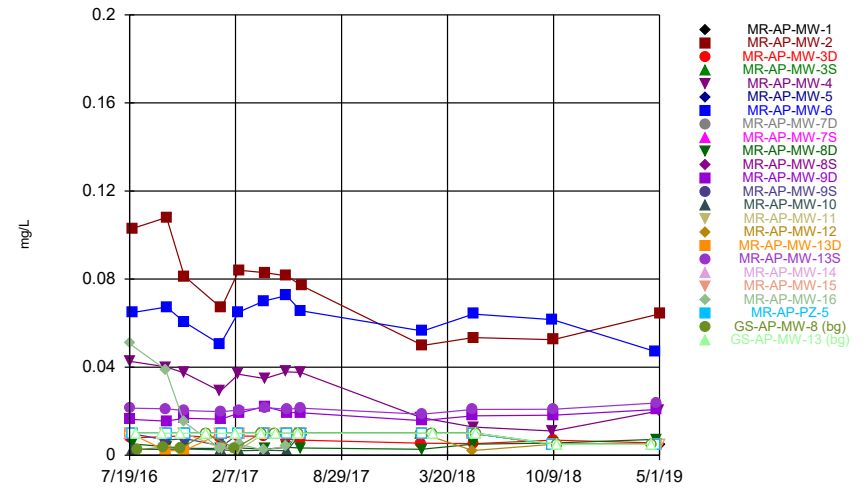
Constituent: Chloride Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



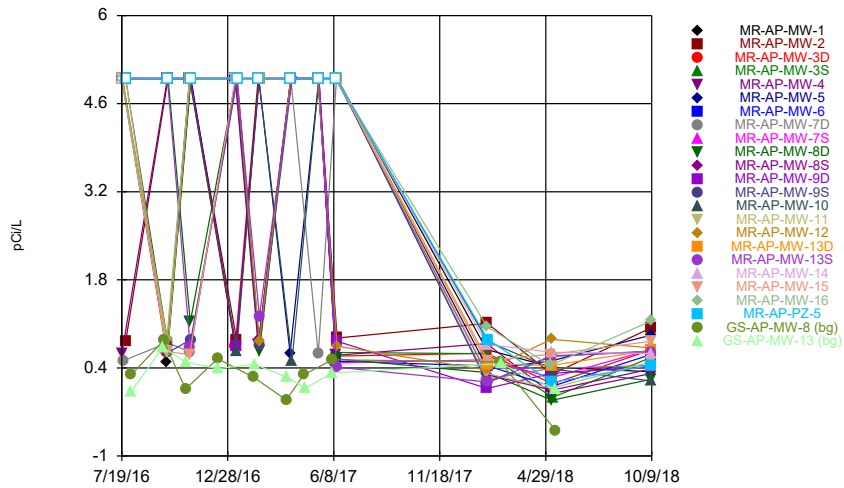
Constituent: Chromium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



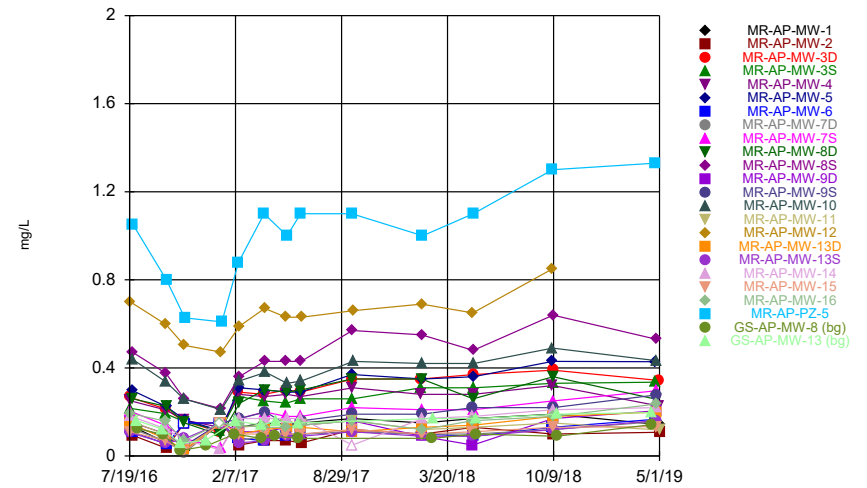
Constituent: Cobalt Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



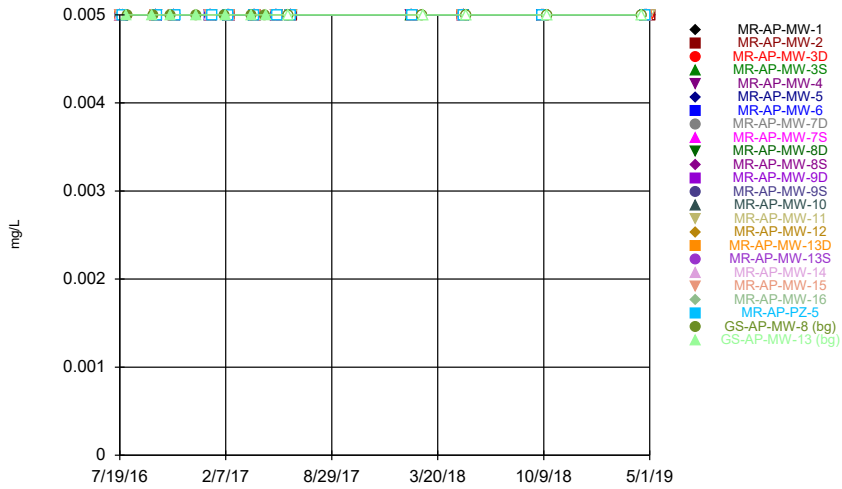
Constituent: Combined Radium 226 + 228 Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



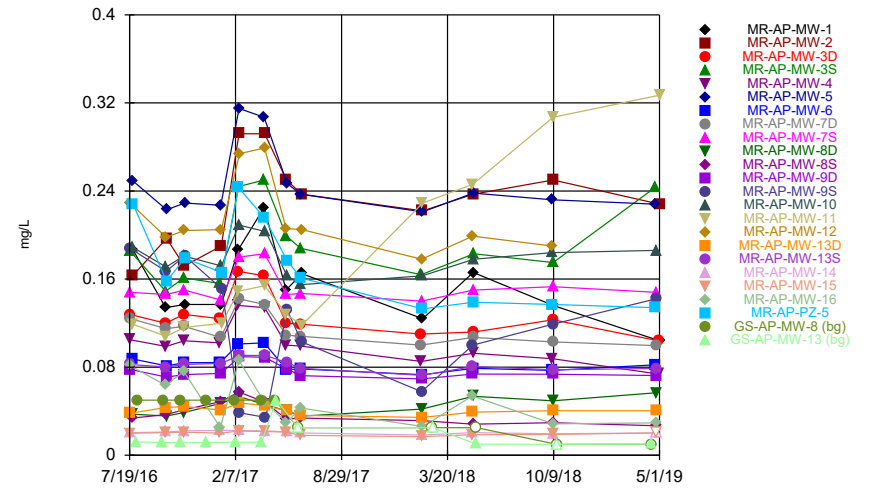
Constituent: Fluoride Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



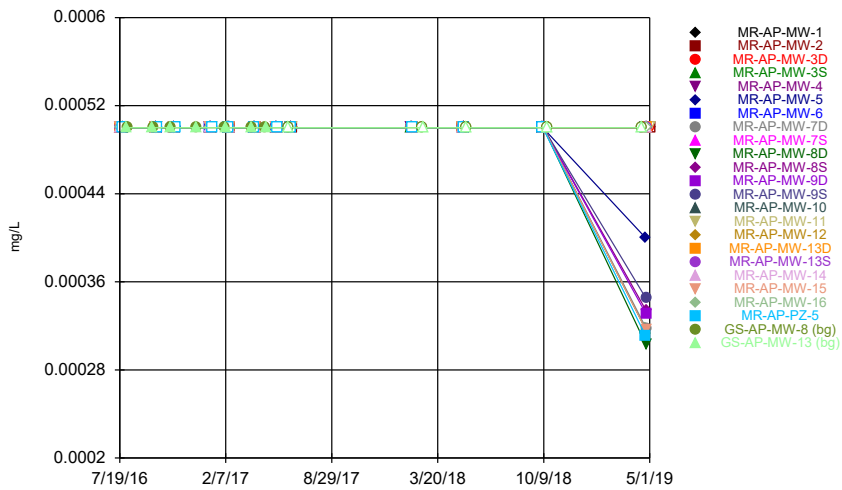
Constituent: Lead Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



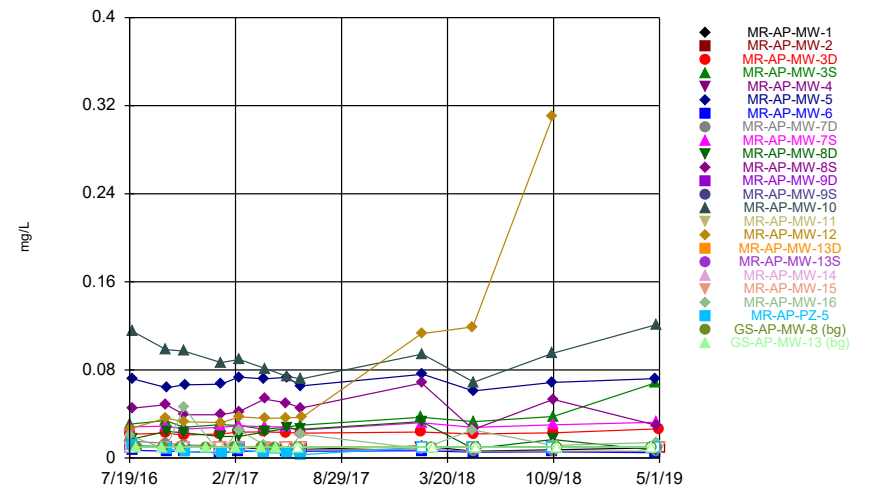
Constituent: Lithium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



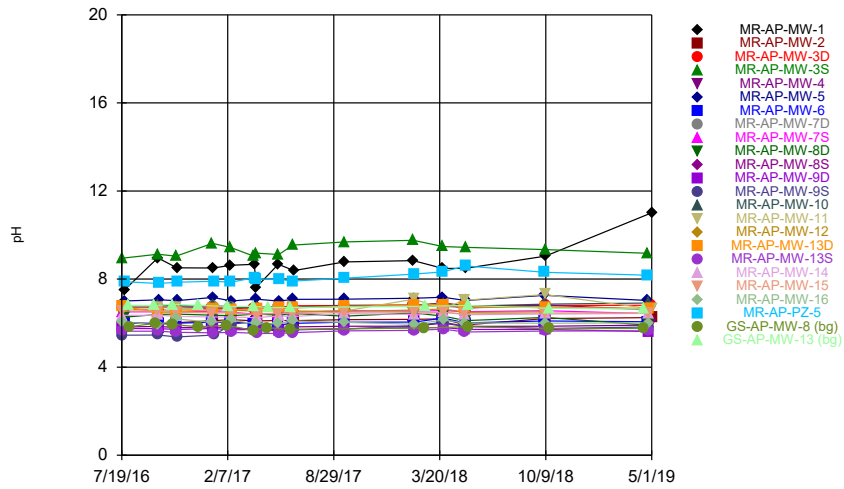
Constituent: Mercury Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



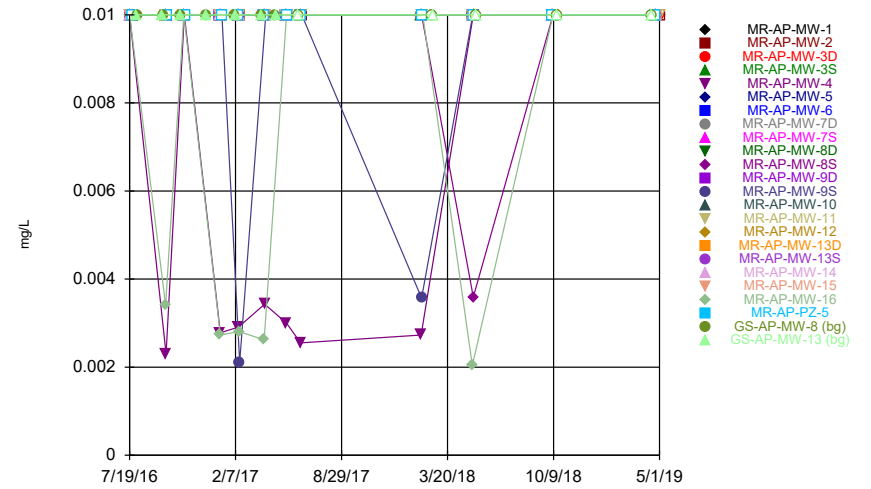
Constituent: Molybdenum Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



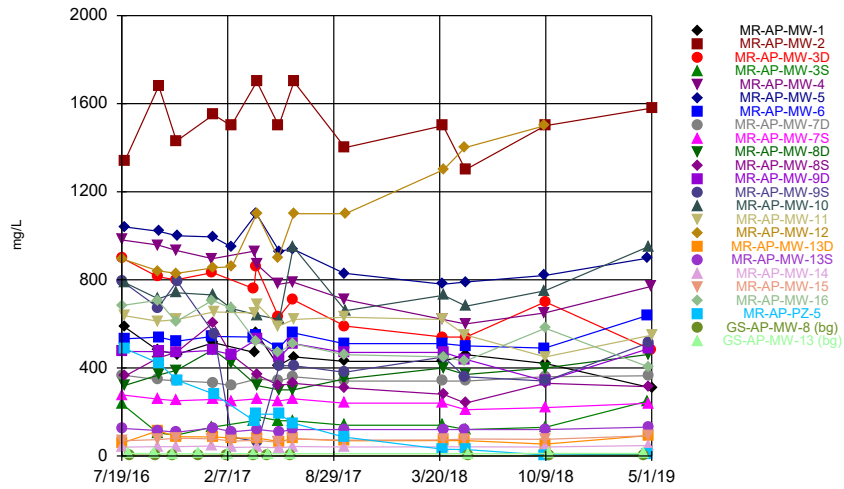
Constituent: pH Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



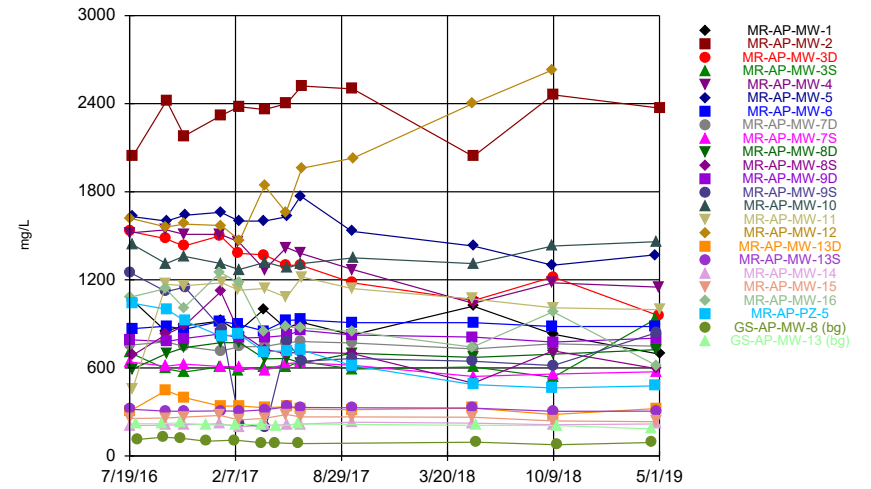
Constituent: Selenium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



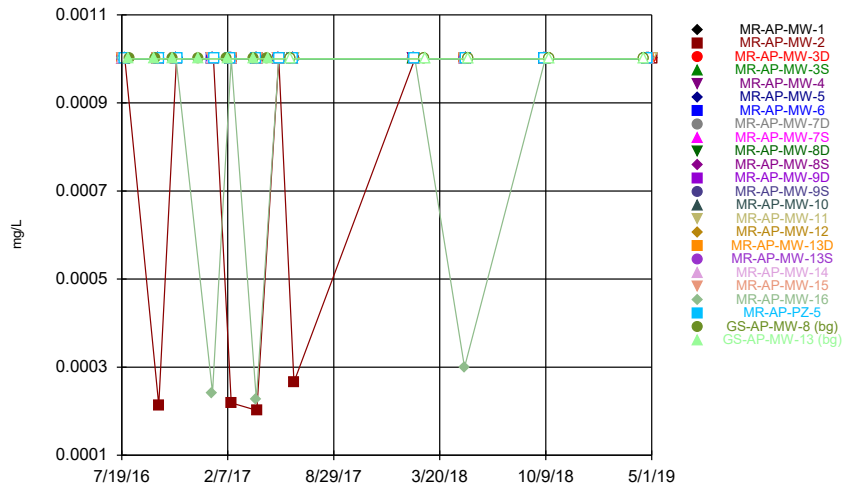
Constituent: Sulfate Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



Constituent: TDS Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Time Series



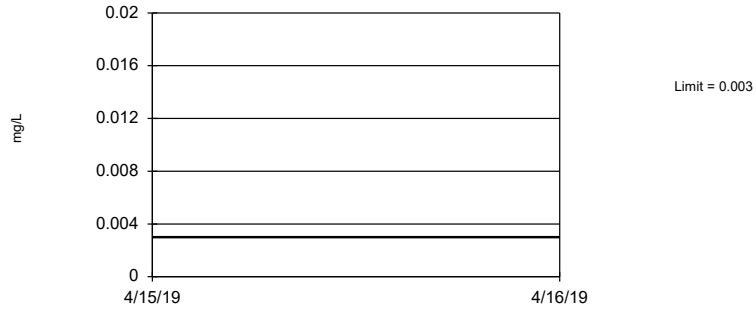
Constituent: Thallium Analysis Run 6/20/2019 9:02 AM View: Descriptive
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Upper Tolerance Limits

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:04 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Arsenic (mg/L)	0.005	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Barium (mg/L)	0.189	24	n/a	n/a	0	n/a	n/a	0.292	NP Inter(normal...
Beryllium (mg/L)	0.003	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Cadmium (mg/L)	0.001	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Chromium (mg/L)	0.01	24	n/a	n/a	37.5	n/a	n/a	0.292	NP Inter(normal...
Cobalt (mg/L)	0.01	24	n/a	n/a	83.33	n/a	n/a	0.292	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.059	20	0.2927	0.3199	0	None	No	0.05	Inter
Fluoride (mg/L)	0.2257	24	0.1169	0.0471	0	None	No	0.05	Inter
Lead (mg/L)	0.005	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Lithium (mg/L)	0.05	24	n/a	n/a	33.33	n/a	n/a	0.292	NP Inter(normal...
Mercury (mg/L)	0.0005	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Molybdenum (mg/L)	0.01	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Selenium (mg/L)	0.01	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...
Thallium (mg/L)	0.001	24	n/a	n/a	41.67	n/a	n/a	0.292	NP Inter(normal...

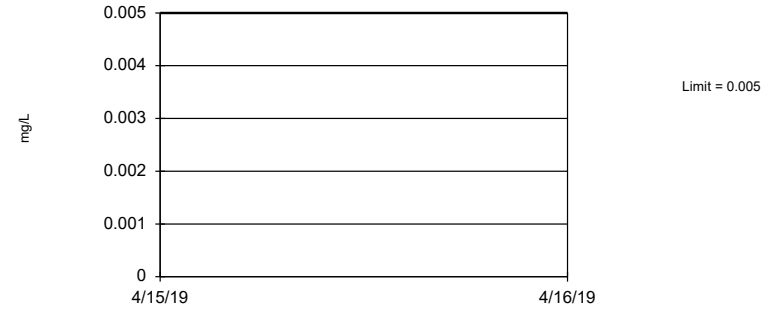
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Antimony Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

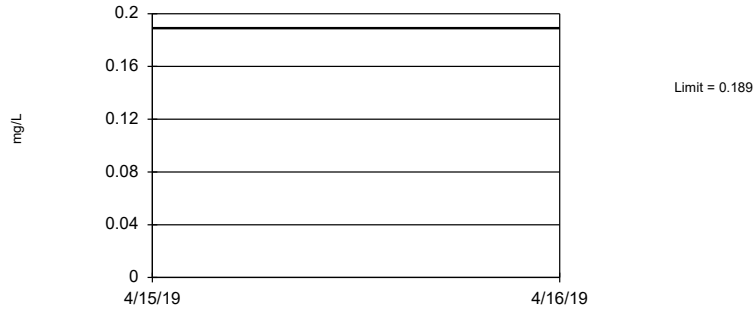
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Arsenic Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

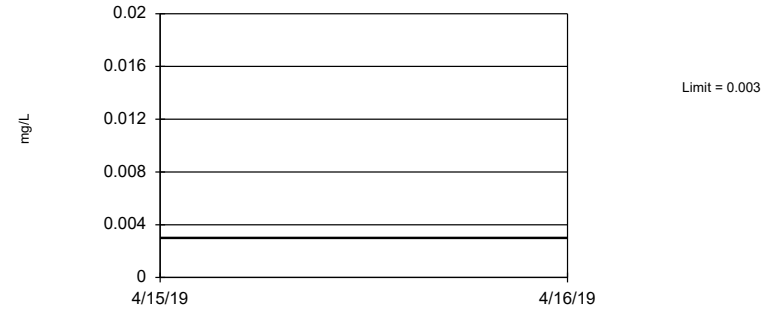
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Barium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

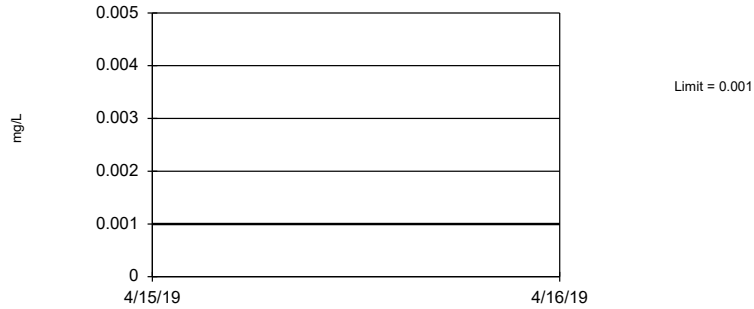
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Beryllium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Cadmium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 37.5% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Chromium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

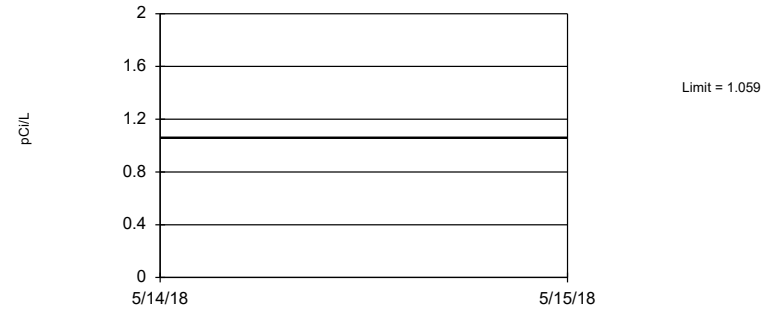
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Cobalt Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

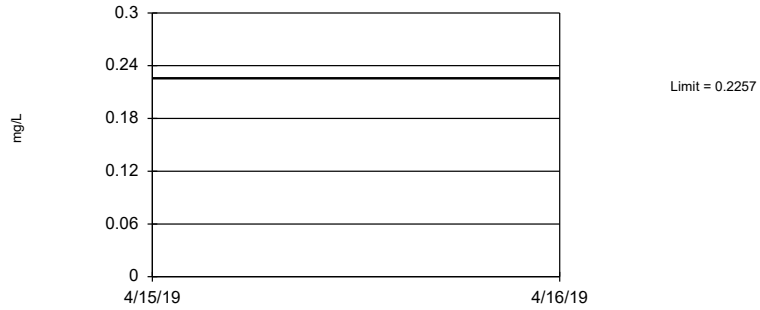
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.2927, Std. Dev.=0.3199, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9391, critical = 0.868. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

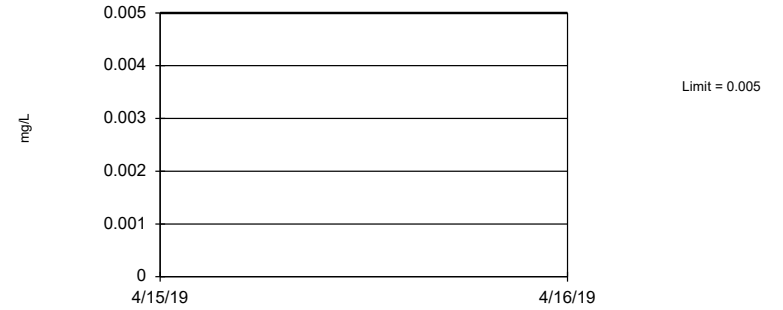
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.1169, Std. Dev.=0.0471, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.884. Report alpha = 0.05.

Constituent: Fluoride Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

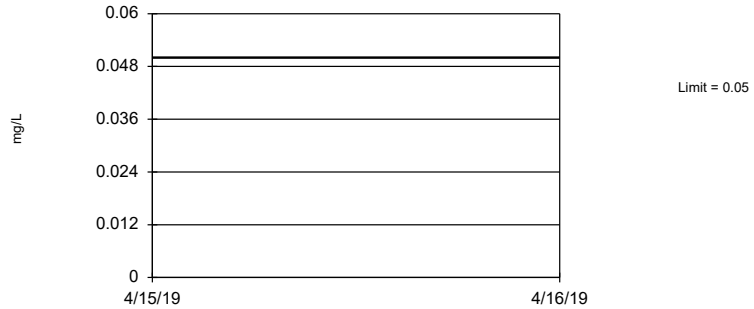
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Lead Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

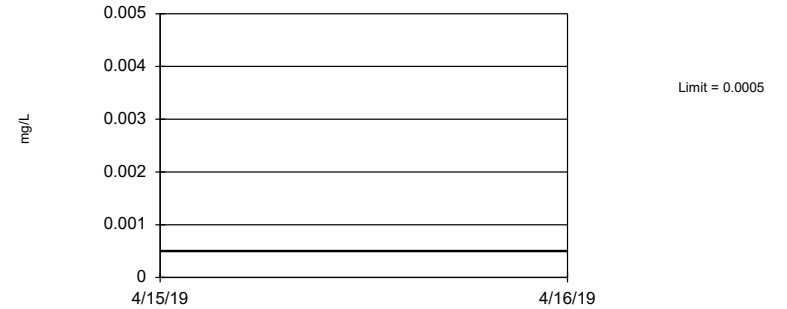
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 33.33% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Lithium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Mercury Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Molybdenum Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Selenium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Thallium Analysis Run 6/20/2019 9:04 AM View: Tolerance Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Confidence Intervals - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-3D	0.0116	0.01052	0.01	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-5	0.01364	0.01122	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.09013	0.06064	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-4	0.03853	0.02297	0.01	Yes	12	0	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.06805	0.05619	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-9D	0.01978	0.01649	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13S	0.02186	0.01997	0.01	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.1805	0.1282	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.2602	0.1948	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.163	0.11	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-3S	0.2195	0.1635	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.1157	0.08736	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.307	0.223	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-6	0.09053	0.07709	0.05	Yes	12	0	ln(x)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7D	0.1249	0.1032	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7S	0.18	0.141	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-9D	0.089	0.0709	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-9S	0.1592	0.07638	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.1921	0.1669	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.307	0.116	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-12	0.274	0.178	0.05	Yes	11	0	No	0.006	NP (normality)
Lithium (mg/L)	MR-AP-MW-13S	0.08591	0.07782	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.2023	0.1428	0.05	Yes	12	0	No	0.01	Param.

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-1	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-2	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3D	0.003	0.00118	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3S	0.003	0.00126	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-4	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-5	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-6	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-7D	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-7S	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-8D	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-8S	0.003	0.000683	0.006	No	12	66.67	No	0.01	NP (normality)
Antimony (mg/L)	MR-AP-MW-9D	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-9S	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-10	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-11	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-12	0.003	0.000652	0.006	No	11	63.64	No	0.006	NP (normality)
Antimony (mg/L)	MR-AP-MW-13D	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-13S	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-14	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-15	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-16	0.003	0.00101	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-PZ-5	0.003	0.0008	0.006	No	12	41.67	No	0.01	NP (normality)
Arsenic (mg/L)	MR-AP-MW-1	0.003225	0.001752	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-2	0.00267	0.0013	0.01	No	12	0	No	0.01	NP (normality)
Arsenic (mg/L)	MR-AP-MW-3D	0.0116	0.01052	0.01	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3S	0.002505	0.00168	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-4	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-5	0.01364	0.01122	0.01	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-6	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-7D	0.001913	0.001586	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7S	0.002584	0.002282	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-8D	0.005	0.0012	0.01	No	12	33.33	No	0.01	NP (normality)
Arsenic (mg/L)	MR-AP-MW-8S	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-9D	0.002203	0.001929	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9S	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-10	0.002619	0.002096	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-11	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-12	0.002113	0.001721	0.01	No	11	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13D	0.003009	0.001766	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13S	0.003682	0.003233	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-14	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-15	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-16	0.005	0.00159	0.01	No	12	91.67	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-PZ-5	0.00452	0.002259	0.01	No	12	8.333	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-1	0.09427	0.06143	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.0246	0.0143	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	MR-AP-MW-3D	0.032	0.0229	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	MR-AP-MW-3S	0.133	0.073	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	MR-AP-MW-4	0.01483	0.0129	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01598	0.01485	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02698	0.02481	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7D	0.03333	0.03017	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7S	0.03953	0.03525	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-8D	0.04621	0.03237	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-8S	0.02812	0.01878	2	No	12	0	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-9D	0.01369	0.01154	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9S	0.03301	0.01674	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.01524	0.0123	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.04041	0.02876	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.02413	0.01963	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13D	0.08322	0.06923	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13S	0.02179	0.01847	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-14	0.08164	0.06874	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-15	0.1099	0.07519	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.03498	0.02529	2	No	12	0	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-PZ-5	0.1427	0.0801	2	No	12	0	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-1	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-2	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	MR-AP-MW-3D	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-3S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-4	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-5	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-6	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-7D	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-7S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-8D	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-8S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-9D	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-9S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-10	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-11	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-12	0.003	0.003	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-13D	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-13S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-14	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-15	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-16	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-PZ-5	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-1	0.001	0.000372	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-2	0.001	0.000219	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-3D	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-3S	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-4	0.001	0.000239	0.005	No	12	33.33	No	0.01	NP (normality)
Cadmium (mg/L)	MR-AP-MW-5	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-6	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-7D	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-7S	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-8D	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-8S	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-9D	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-9S	0.001	0.000319	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-10	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-11	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13D	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13S	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-14	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-15	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-16	0.001	0.000222	0.005	No	12	83.33	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-PZ-5	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-1	0.01153	0.00361	0.1	No	12	16.67	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-2	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3S	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-4	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-6	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7S	0.01	0.00207	0.1	No	12	91.67	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-8D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-8S	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-9D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-9S	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-10	0.0112	0.01	0.1	No	12	91.67	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-11	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-12	0.01	0.01	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	MR-AP-MW-13D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-13S	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-14	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-15	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-16	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-PZ-5	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-1	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-2	0.09013	0.06064	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3D	0.00835	0.006283	0.01	No	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3S	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	MR-AP-MW-4	0.03853	0.02297	0.01	Yes	12	0	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-5	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-6	0.06805	0.05619	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7D	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-7S	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-8D	0.005042	0.003029	0.01	No	12	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-8S	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-9D	0.01978	0.01649	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-9S	0.01	0.005	0.01	No	12	66.67	No	0.01	NP (normality)
Cobalt (mg/L)	MR-AP-MW-10	0.01	0.0021	0.01	No	12	41.67	No	0.01	NP (normality)
Cobalt (mg/L)	MR-AP-MW-11	0.01	0.00316	0.01	No	12	83.33	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.01	0.00211	0.01	No	11	90.91	No	0.006	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-13D	0.01	0.00214	0.01	No	12	83.33	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-13S	0.02186	0.01997	0.01	Yes	12	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-14	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-15	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-16	0.0389	0.00298	0.01	No	12	41.67	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	MR-AP-PZ-5	0.01	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	5	0.338	5	No	10	60	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	5	0.301	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	5	0.147	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	5	-0.0676	5	No	11	63.64	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	5	-0.00808	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	5	0.38	5	No	11	54.55	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	5	0.106	5	No	11	63.64	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7D	5	0.218	5	No	11	36.36	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7S	5	0.248	5	No	11	63.64	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-8D	5	-0.113	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-8S	5	0.047	5	No	11	63.64	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9D	5	0.0739	5	No	11	54.55	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9S	5	0.162	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	5	0.193	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	5	0.0757	5	No	11	63.64	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	5	0.366	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13D	5	0.441	5	No	11	72.73	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13S	5	0.175	5	No	11	45.45	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14	5	0.631	5	No	11	72.73	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	5	0.516	5	No	11	54.55	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	5	0.444	5	No	11	63.64	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	5	0.171	5	No	11	72.73	No	0.006	NP (normality)
Fluoride (mg/L)	MR-AP-MW-1	0.1654	0.1146	4	No	13	7.692	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-2	0.196	0.05253	4	No	13	15.38	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-3D	0.3473	0.2236	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-3S	0.299	0.2003	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-4	0.293	0.2104	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-5	0.371	0.233	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-6	0.2038	0.06898	4	No	13	15.38	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-7D	0.1275	0.07293	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-7S	0.2331	0.1317	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-8D	0.3216	0.2074	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-8S	0.5312	0.352	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-9D	0.1586	0.08997	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-9S	0.2127	0.124	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-10	0.4298	0.313	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-11	0.1493	0.1119	4	No	13	7.692	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-12	0.7129	0.5608	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-13D	0.1586	0.09399	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-13S	0.1213	0.07456	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-14	0.1903	0.1184	4	No	13	7.692	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-15	0.1257	0.08622	4	No	13	7.692	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-16	0.1809	0.1216	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	MR-AP-PZ-5	1.164	0.835	4	No	13	0	No	0.01	Param.
Lead (mg/L)	MR-AP-MW-1	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-2	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-3D	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-3S	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-4	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-5	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	MR-AP-MW-6	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-7D	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-7S	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-8D	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-8S	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-9D	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-9S	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-10	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-11	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-12	0.005	0.005	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	MR-AP-MW-13D	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-13S	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-14	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-15	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-16	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-PZ-5	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	MR-AP-MW-1	0.1805	0.1282	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.2602	0.1948	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.163	0.11	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-3S	0.2195	0.1635	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.1157	0.08736	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.307	0.223	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-6	0.09053	0.07709	0.05	Yes	12	0	ln(x)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7D	0.1249	0.1032	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7S	0.18	0.141	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-8D	0.05046	0.03879	0.05	No	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-8S	0.04491	0.02992	0.05	No	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9D	0.089	0.0709	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-9S	0.1592	0.07638	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.1921	0.1669	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.307	0.116	0.05	Yes	12	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-12	0.274	0.178	0.05	Yes	11	0	No	0.006	NP (normality)
Lithium (mg/L)	MR-AP-MW-13D	0.0438	0.0379	0.05	No	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13S	0.08591	0.07782	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-14	0.02195	0.01993	0.05	No	12	8.333	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.02111	0.01875	0.05	No	12	8.333	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.06712	0.03145	0.05	No	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.2023	0.1428	0.05	Yes	12	0	No	0.01	Param.
Mercury (mg/L)	MR-AP-MW-1	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-2	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-3D	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-3S	0.0005	0.000318	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-4	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-5	0.0005	0.0004	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-6	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-7D	0.0005	0.000318	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-7S	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-8D	0.0005	0.000303	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-8S	0.0005	0.000334	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-9D	0.0005	0.000331	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-9S	0.0005	0.000345	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-10	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-11	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-12	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	MR-AP-MW-13D	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-13S	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-14	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-15	0.0005	0.000316	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-16	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-PZ-5	0.0005	0.000311	0.002	No	12	91.67	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-1	0.01041	0.007957	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-3D	0.02403	0.02178	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.0377	0.028	0.1	No	12	0	No	0.01	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-4	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-5	0.07282	0.06569	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-6	0.006507	0.005383	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7D	0.01179	0.007023	0.1	No	12	0	No	0.01	Param.

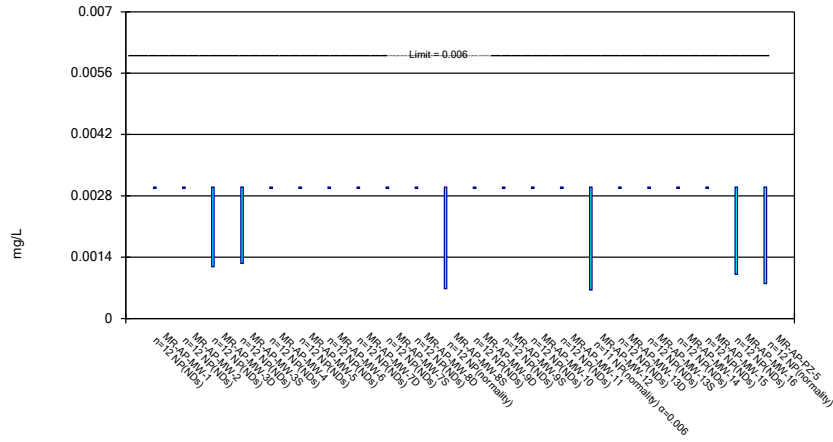
Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb Printed 6/20/2019, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	MR-AP-MW-7S	0.03039	0.02716	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-8D	0.02629	0.01459	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-8S	0.05383	0.03626	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-9S	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-10	0.1037	0.07848	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-11	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-12	0.119	0.0267	0.1	No	11	0	No	0.006	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-13D	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-13S	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-14	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-15	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-16	0.02609	0.007413	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.01169	0.005405	0.1	No	12	33.33	No	0.01	Param.
Selenium (mg/L)	MR-AP-MW-1	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-2	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-3D	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-3S	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-4	0.01	0.00255	0.05	No	12	41.67	No	0.01	NP (normality)
Selenium (mg/L)	MR-AP-MW-5	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-6	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-7D	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-7S	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-8D	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-8S	0.01	0.00359	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-9D	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-9S	0.01	0.00357	0.05	No	12	83.33	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-10	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-11	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-12	0.01	0.01	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	MR-AP-MW-13D	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-13S	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-14	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-15	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-16	0.01	0.00262	0.05	No	12	58.33	No	0.01	NP (normality)
Selenium (mg/L)	MR-AP-PZ-5	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-1	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-2	0.001	0.000214	0.002	No	12	66.67	No	0.01	NP (normality)
Thallium (mg/L)	MR-AP-MW-3D	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-3S	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-5	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-6	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-7D	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-7S	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-8D	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-8S	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-9D	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-9S	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-10	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-11	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-12	0.001	0.001	0.002	No	11	100	No	0.006	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13D	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13S	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-14	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-15	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-16	0.001	0.000242	0.002	No	12	75	No	0.01	NP (normality)
Thallium (mg/L)	MR-AP-PZ-5	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

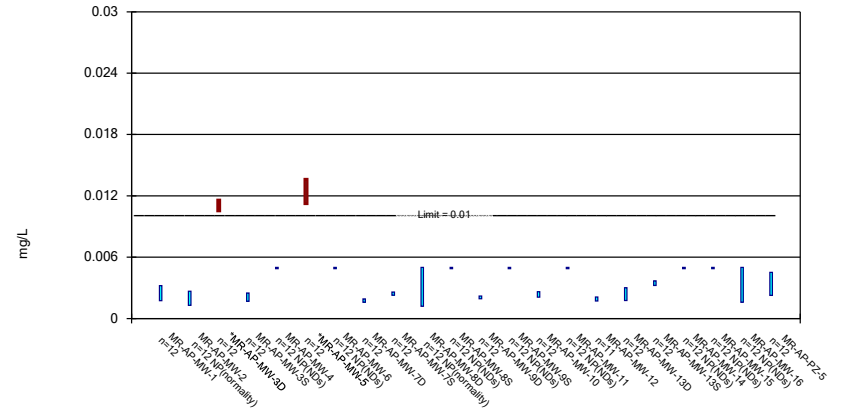
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 6/20/2019 9:05 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric and Non-Parametric (NP) Confidence Interval

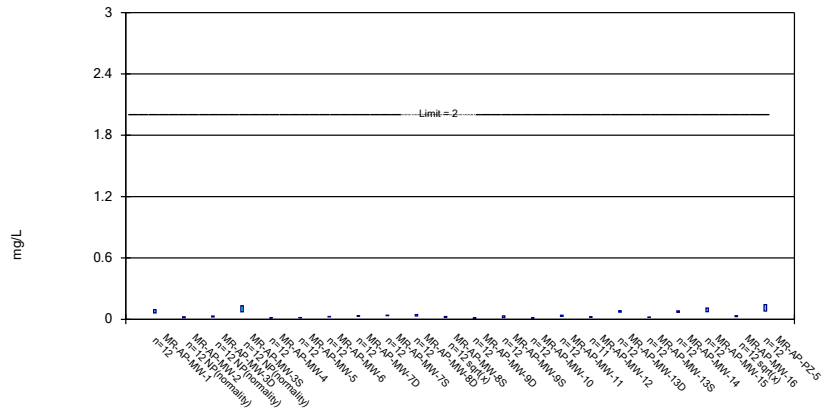
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/20/2019 9:05 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric and Non-Parametric (NP) Confidence Interval

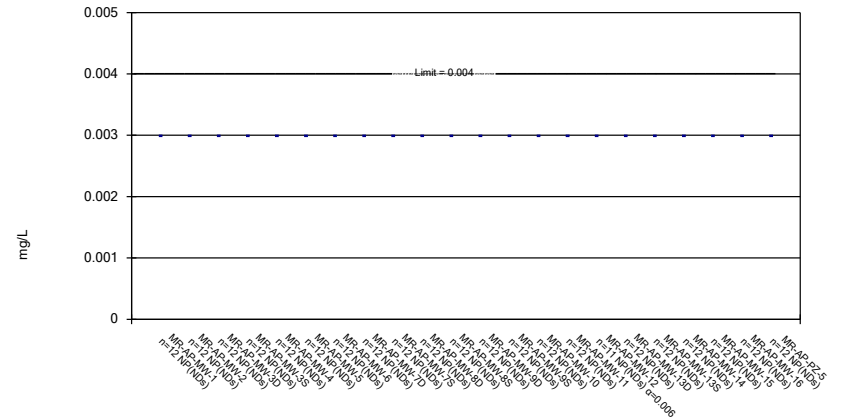
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/20/2019 9:05 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

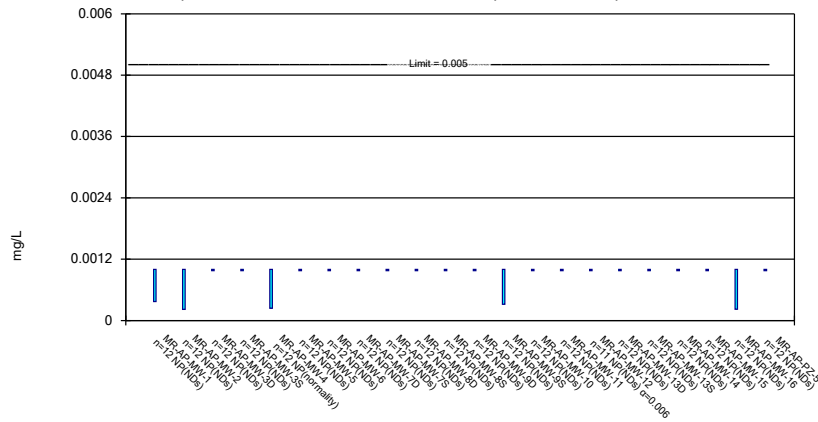
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

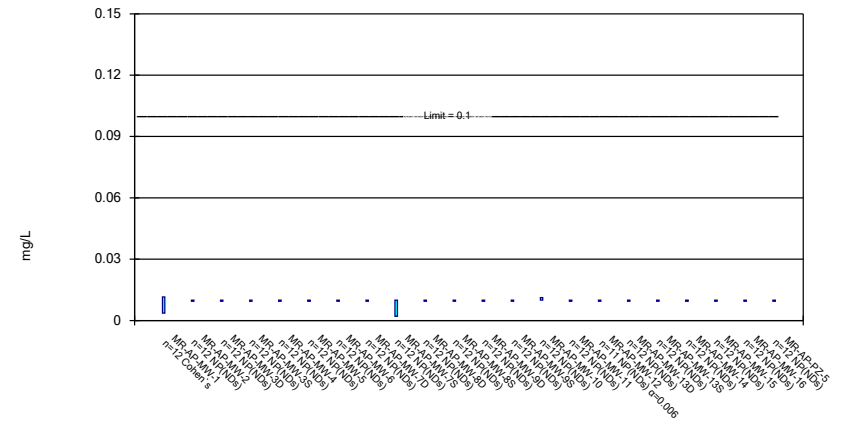
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric and Non-Parametric (NP) Confidence Interval

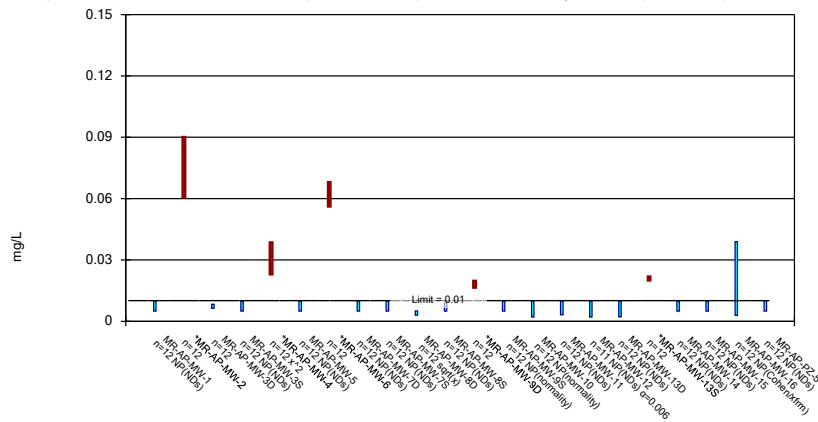
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric and Non-Parametric (NP) Confidence Interval

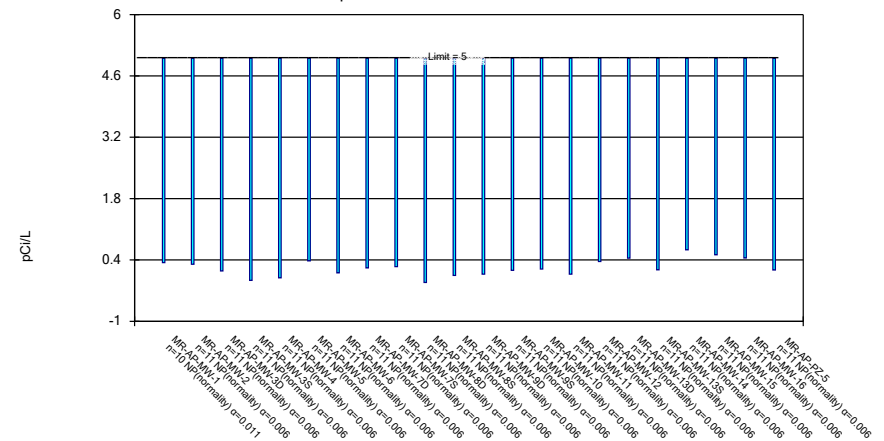
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

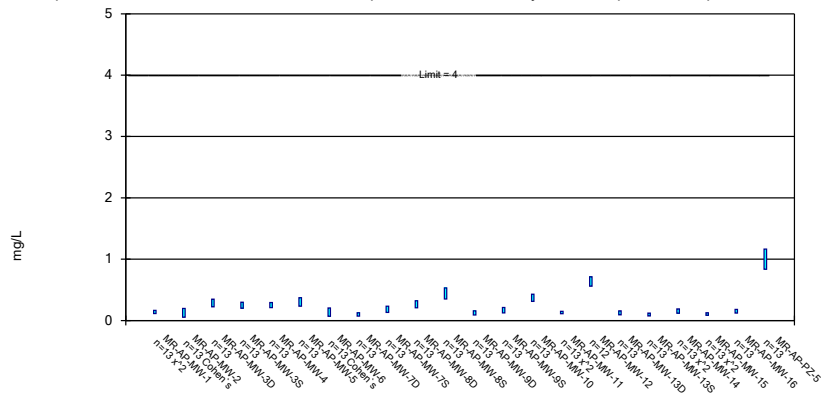
Compliance Limit is not exceeded.



Constituent: Combined Radium 226 + 228 Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric Confidence Interval

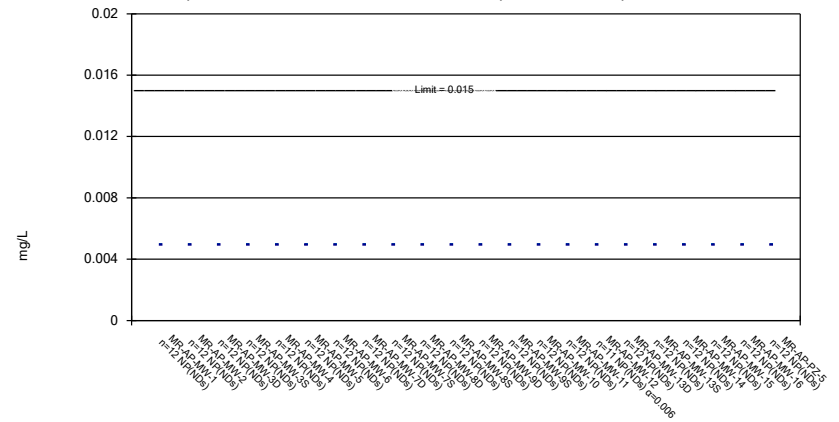
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

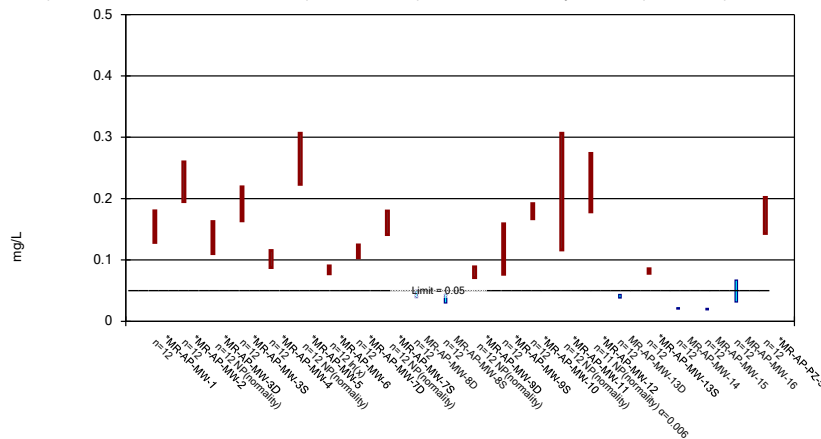
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric and Non-Parametric (NP) Confidence Interval

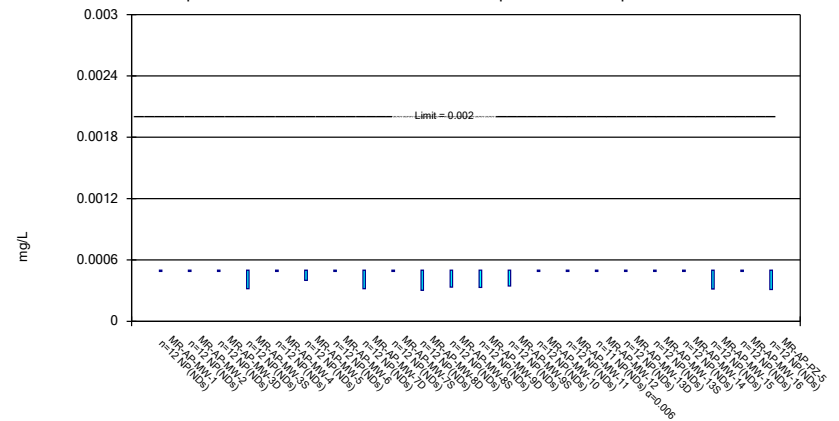
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

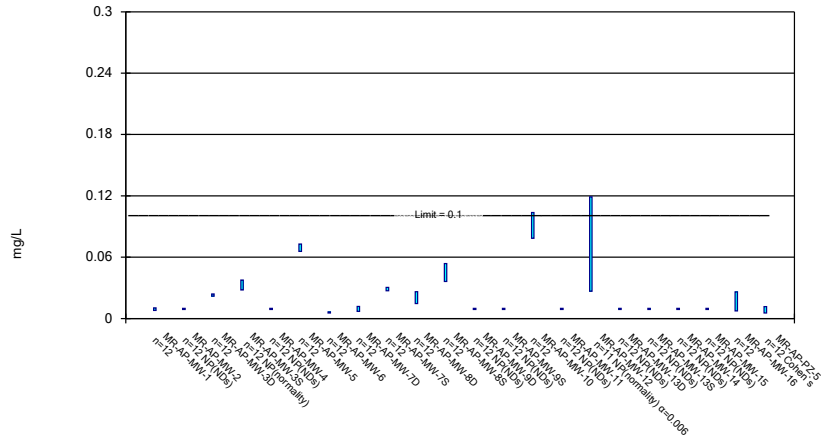
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Parametric and Non-Parametric (NP) Confidence Interval

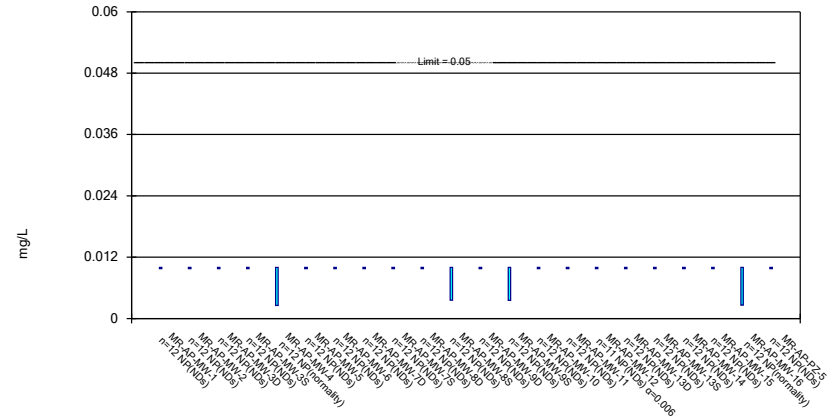
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

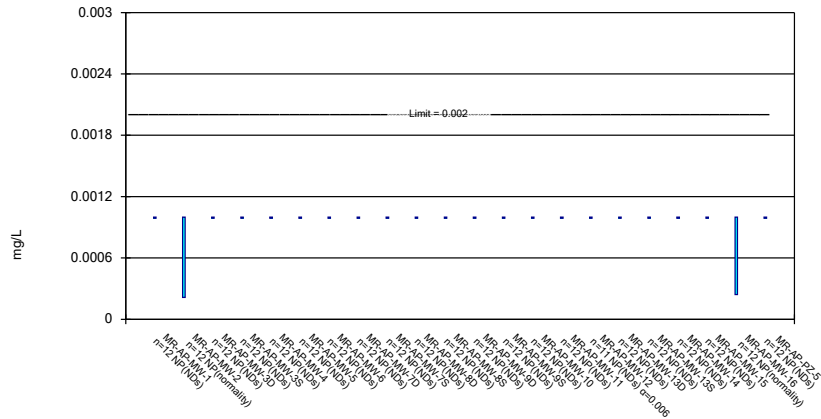
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 6/20/2019 9:06 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 6/20/2019 9:07 AM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond.mdb

2nd
Semi-Annual
Monitoring Event

Interwell Prediction Limit - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	MR-AP-MW-2	0.1	n/a	8/27/2019	0.192	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3D	0.1	n/a	8/27/2019	0.443	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3S	0.1	n/a	8/27/2019	0.209	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-4	0.1	n/a	8/27/2019	0.495	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-5	0.1	n/a	8/28/2019	0.852	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-PZ-5	0.1	n/a	8/29/2019	0.319	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-6	0.1	n/a	8/28/2019	0.906	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7D	0.1	n/a	8/28/2019	0.764	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7S	0.1	n/a	8/28/2019	0.743	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8D	0.1	n/a	8/28/2019	1.05	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8S	0.1	n/a	8/28/2019	2.06	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9D	0.1	n/a	8/27/2019	0.75	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9S	0.1	n/a	8/27/2019	0.438	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-10	0.1	n/a	8/29/2019	4.1	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-12	0.1	n/a	8/28/2019	7.06	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-13S	0.1	n/a	8/29/2019	0.11	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-14	0.1	n/a	8/28/2019	0.126	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-15	0.1	n/a	8/28/2019	0.863	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-16	0.1	n/a	8/28/2019	3.18	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-1	48.1	n/a	8/27/2019	165	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-2	48.1	n/a	8/27/2019	251	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-3D	48.1	n/a	8/27/2019	189	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-4	48.1	n/a	8/27/2019	252	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-5	48.1	n/a	8/28/2019	279	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-6	48.1	n/a	8/28/2019	148	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7D	48.1	n/a	8/28/2019	113	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7S	48.1	n/a	8/28/2019	83.7	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8D	48.1	n/a	8/28/2019	55.2	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8S	48.1	n/a	8/28/2019	56.9	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9D	48.1	n/a	8/27/2019	67.7	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9S	48.1	n/a	8/27/2019	77.6	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-10	48.1	n/a	8/29/2019	178	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-11	48.1	n/a	8/28/2019	138	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-12	48.1	n/a	8/28/2019	152	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-15	48.1	n/a	8/28/2019	53.8	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-16	48.1	n/a	8/28/2019	99.5	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Chloride (mg/L)	MR-AP-MW-1	3.995	n/a	8/27/2019	8.75	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-2	3.995	n/a	8/27/2019	7.95	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3D	3.995	n/a	8/27/2019	34.7	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3S	3.995	n/a	8/27/2019	145	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-4	3.995	n/a	8/27/2019	42.3	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-5	3.995	n/a	8/28/2019	47.1	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-PZ-5	3.995	n/a	8/29/2019	28.5	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-6	3.995	n/a	8/28/2019	32.5	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7D	3.995	n/a	8/28/2019	27.2	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7S	3.995	n/a	8/28/2019	22.7	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8D	3.995	n/a	8/28/2019	10.8	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8S	3.995	n/a	8/28/2019	4.08	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9D	3.995	n/a	8/27/2019	10.2	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9S	3.995	n/a	8/27/2019	7.56	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-10	3.995	n/a	8/29/2019	6.65	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-11	3.995	n/a	8/28/2019	6.4	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-12	3.995	n/a	8/28/2019	7.27	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13D	3.995	n/a	8/29/2019	13.4	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13S	3.995	n/a	8/29/2019	9.33	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-14	3.995	n/a	8/28/2019	7.3	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-15	3.995	n/a	8/28/2019	19.3	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-16	3.995	n/a	8/28/2019	10.8	Yes	25	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3D	0.2291	n/a	8/27/2019	0.361	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3S	0.2291	n/a	8/27/2019	0.294	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-4	0.2291	n/a	8/27/2019	0.237	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-5	0.2291	n/a	8/28/2019	0.385	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-PZ-5	0.2291	n/a	8/29/2019	2.07	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8S	0.2291	n/a	8/28/2019	0.565	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-10	0.2291	n/a	8/29/2019	0.445	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-12	0.2291	n/a	8/28/2019	0.916	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-16	0.2291	n/a	8/28/2019	0.29	Yes	27	0	No	0.000342	Param Inter 1 of 2
Sulfate (mg/L)	MR-AP-MW-1	12.1	n/a	8/27/2019	639	Yes	25	0	n/a	0.002324	NP Inter (normality) ...

Interwell Prediction Limit - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	MR-AP-MW-2	12.1	n/a	8/27/2019	1570	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3D	12.1	n/a	8/27/2019	529	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3S	12.1	n/a	8/27/2019	248	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-4	12.1	n/a	8/27/2019	670	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-5	12.1	n/a	8/28/2019	818	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-PZ-5	12.1	n/a	8/29/2019	92	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-6	12.1	n/a	8/28/2019	609	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7D	12.1	n/a	8/28/2019	371	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7S	12.1	n/a	8/28/2019	258	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8D	12.1	n/a	8/28/2019	439	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8S	12.1	n/a	8/28/2019	366	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9D	12.1	n/a	8/27/2019	490	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9S	12.1	n/a	8/27/2019	553	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-10	12.1	n/a	8/29/2019	847	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-11	12.1	n/a	8/28/2019	605	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-12	12.1	n/a	8/28/2019	1780	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13D	12.1	n/a	8/29/2019	82.7	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13S	12.1	n/a	8/29/2019	137	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-14	12.1	n/a	8/28/2019	51.8	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-15	12.1	n/a	8/28/2019	227	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-16	12.1	n/a	8/28/2019	384	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-1	226	n/a	8/27/2019	1120	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-2	226	n/a	8/27/2019	2470	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3D	226	n/a	8/27/2019	960	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3S	226	n/a	8/27/2019	837	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-4	226	n/a	8/27/2019	1120	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-5	226	n/a	8/28/2019	1370	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-PZ-5	226	n/a	8/29/2019	734	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-6	226	n/a	8/28/2019	903	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7D	226	n/a	8/28/2019	660	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7S	226	n/a	8/28/2019	568	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8D	226	n/a	8/28/2019	764	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8S	226	n/a	8/28/2019	712	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9D	226	n/a	8/27/2019	774	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9S	226	n/a	8/27/2019	892	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-10	226	n/a	8/29/2019	1550	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-11	226	n/a	8/28/2019	1050	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-12	226	n/a	8/28/2019	2850	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13D	226	n/a	8/29/2019	307	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13S	226	n/a	8/29/2019	323	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-15	226	n/a	8/28/2019	397	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-16	226	n/a	8/28/2019	642	Yes	25	0	n/a	0.002324	NP Inter (normality) ...

Interwell Prediction Limit - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	MR-AP-MW-1	0.1	n/a	8/27/2019	0.0869	No	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-2	0.1	n/a	8/27/2019	0.192	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3D	0.1	n/a	8/27/2019	0.443	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-3S	0.1	n/a	8/27/2019	0.209	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-4	0.1	n/a	8/27/2019	0.495	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-5	0.1	n/a	8/28/2019	0.852	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-PZ-5	0.1	n/a	8/29/2019	0.319	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-6	0.1	n/a	8/28/2019	0.906	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7D	0.1	n/a	8/28/2019	0.764	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-7S	0.1	n/a	8/28/2019	0.743	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8D	0.1	n/a	8/28/2019	1.05	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-8S	0.1	n/a	8/28/2019	2.06	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9D	0.1	n/a	8/27/2019	0.75	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-9S	0.1	n/a	8/27/2019	0.438	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-10	0.1	n/a	8/29/2019	4.1	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-11	0.1	n/a	8/28/2019	0.05ND	No	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-12	0.1	n/a	8/28/2019	7.06	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-13D	0.1	n/a	8/29/2019	0.0961	No	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-13S	0.1	n/a	8/29/2019	0.11	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-14	0.1	n/a	8/28/2019	0.126	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-15	0.1	n/a	8/28/2019	0.863	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Boron (mg/L)	MR-AP-MW-16	0.1	n/a	8/28/2019	3.18	Yes	25	44	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-1	48.1	n/a	8/27/2019	165	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-2	48.1	n/a	8/27/2019	251	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-3D	48.1	n/a	8/27/2019	189	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-3S	48.1	n/a	8/27/2019	9.68	No	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-4	48.1	n/a	8/27/2019	252	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-5	48.1	n/a	8/28/2019	279	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-PZ-5	48.1	n/a	8/29/2019	14.2	No	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-6	48.1	n/a	8/28/2019	148	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7D	48.1	n/a	8/28/2019	113	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-7S	48.1	n/a	8/28/2019	83.7	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8D	48.1	n/a	8/28/2019	55.2	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-8S	48.1	n/a	8/28/2019	56.9	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9D	48.1	n/a	8/27/2019	67.7	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-9S	48.1	n/a	8/27/2019	77.6	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-10	48.1	n/a	8/29/2019	178	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-11	48.1	n/a	8/28/2019	138	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-12	48.1	n/a	8/28/2019	152	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-13D	48.1	n/a	8/29/2019	47.3	No	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-13S	48.1	n/a	8/29/2019	17.6	No	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-14	48.1	n/a	8/28/2019	36.5	No	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-15	48.1	n/a	8/28/2019	53.8	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Calcium (mg/L)	MR-AP-MW-16	48.1	n/a	8/28/2019	99.5	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Chloride (mg/L)	MR-AP-MW-1	3.995	n/a	8/27/2019	8.75	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-2	3.995	n/a	8/27/2019	7.95	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3D	3.995	n/a	8/27/2019	34.7	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-3S	3.995	n/a	8/27/2019	145	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-4	3.995	n/a	8/27/2019	42.3	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-5	3.995	n/a	8/28/2019	47.1	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-PZ-5	3.995	n/a	8/29/2019	28.5	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-6	3.995	n/a	8/28/2019	32.5	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7D	3.995	n/a	8/28/2019	27.2	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-7S	3.995	n/a	8/28/2019	22.7	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8D	3.995	n/a	8/28/2019	10.8	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-8S	3.995	n/a	8/28/2019	4.08	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9D	3.995	n/a	8/27/2019	10.2	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-9S	3.995	n/a	8/27/2019	7.56	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-10	3.995	n/a	8/29/2019	6.65	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-11	3.995	n/a	8/28/2019	6.4	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-12	3.995	n/a	8/28/2019	7.27	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13D	3.995	n/a	8/29/2019	13.4	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-13S	3.995	n/a	8/29/2019	9.33	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-14	3.995	n/a	8/28/2019	7.3	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-15	3.995	n/a	8/28/2019	19.3	Yes	25	0	No	0.000342	Param Inter 1 of 2
Chloride (mg/L)	MR-AP-MW-16	3.995	n/a	8/28/2019	10.8	Yes	25	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-1	0.2291	n/a	8/27/2019	0.159	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-2	0.2291	n/a	8/27/2019	0.19	No	27	0	No	0.000342	Param Inter 1 of 2

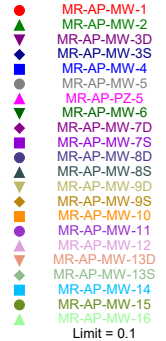
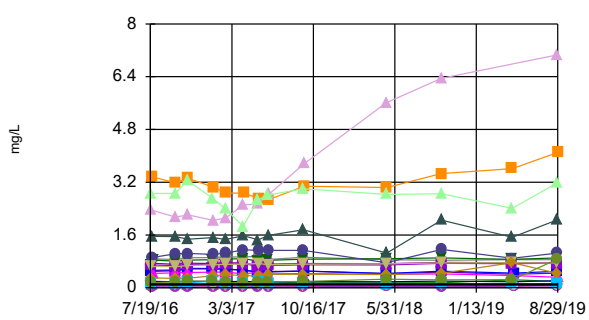
Interwell Prediction Limit - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	MR-AP-MW-3D	0.2291	n/a	8/27/2019	0.361	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-3S	0.2291	n/a	8/27/2019	0.294	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-4	0.2291	n/a	8/27/2019	0.237	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-5	0.2291	n/a	8/28/2019	0.385	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-PZ-5	0.2291	n/a	8/29/2019	2.07	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-6	0.2291	n/a	8/28/2019	0.105	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7D	0.2291	n/a	8/28/2019	0.106	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-7S	0.2291	n/a	8/28/2019	0.221	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8D	0.2291	n/a	8/28/2019	0.214	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-8S	0.2291	n/a	8/28/2019	0.565	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-9D	0.2291	n/a	8/27/2019	0.173	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-9S	0.2291	n/a	8/27/2019	0.173	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-10	0.2291	n/a	8/29/2019	0.445	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-11	0.2291	n/a	8/28/2019	0.13	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-12	0.2291	n/a	8/28/2019	0.916	Yes	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-13D	0.2291	n/a	8/29/2019	0.144	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-13S	0.2291	n/a	8/29/2019	0.103	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-14	0.2291	n/a	8/28/2019	0.192	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-15	0.2291	n/a	8/28/2019	0.0974	No	27	0	No	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	MR-AP-MW-16	0.2291	n/a	8/28/2019	0.29	Yes	27	0	No	0.000342	Param Inter 1 of 2
Sulfate (mg/L)	MR-AP-MW-1	12.1	n/a	8/27/2019	639	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-2	12.1	n/a	8/27/2019	1570	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3D	12.1	n/a	8/27/2019	529	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-3S	12.1	n/a	8/27/2019	248	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-4	12.1	n/a	8/27/2019	670	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-5	12.1	n/a	8/28/2019	818	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-PZ-5	12.1	n/a	8/29/2019	92	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-6	12.1	n/a	8/28/2019	609	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7D	12.1	n/a	8/28/2019	371	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-7S	12.1	n/a	8/28/2019	258	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8D	12.1	n/a	8/28/2019	439	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-8S	12.1	n/a	8/28/2019	366	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9D	12.1	n/a	8/27/2019	490	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-9S	12.1	n/a	8/27/2019	553	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-10	12.1	n/a	8/29/2019	847	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-11	12.1	n/a	8/28/2019	605	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-12	12.1	n/a	8/28/2019	1780	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13D	12.1	n/a	8/29/2019	82.7	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-13S	12.1	n/a	8/29/2019	137	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-14	12.1	n/a	8/28/2019	51.8	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-15	12.1	n/a	8/28/2019	227	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
Sulfate (mg/L)	MR-AP-MW-16	12.1	n/a	8/28/2019	384	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-1	226	n/a	8/27/2019	1120	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-2	226	n/a	8/27/2019	2470	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3D	226	n/a	8/27/2019	960	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-3S	226	n/a	8/27/2019	837	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-4	226	n/a	8/27/2019	1120	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-5	226	n/a	8/28/2019	1370	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-PZ-5	226	n/a	8/29/2019	734	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-6	226	n/a	8/28/2019	903	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7D	226	n/a	8/28/2019	660	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-7S	226	n/a	8/28/2019	568	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8D	226	n/a	8/28/2019	764	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-8S	226	n/a	8/28/2019	712	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9D	226	n/a	8/27/2019	774	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-9S	226	n/a	8/27/2019	892	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-10	226	n/a	8/29/2019	1550	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-11	226	n/a	8/28/2019	1050	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-12	226	n/a	8/28/2019	2850	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13D	226	n/a	8/29/2019	307	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-13S	226	n/a	8/29/2019	323	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-14	226	n/a	8/28/2019	213	No	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-15	226	n/a	8/28/2019	397	Yes	25	0	n/a	0.002324	NP Inter (normality) ...
TDS (mg/L)	MR-AP-MW-16	226	n/a	8/28/2019	642	Yes	25	0	n/a	0.002324	NP Inter (normality) ...

Exceeds Limit: MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6,...

Prediction Limit
Interwell Non-parametric

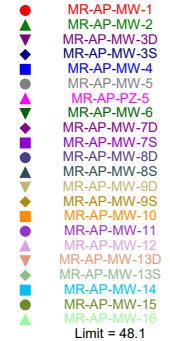
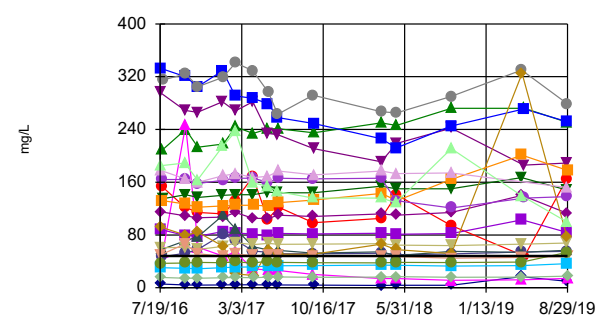


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. Annual per-constituent alpha = 0.09733. Individual comparison alpha = 0.002324 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 1/21/2020 2:08 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-MW-5, MR-AP-MW-6, MR-AP-MW-7D,...

Prediction Limit
Interwell Non-parametric

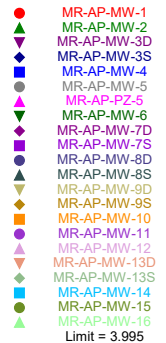
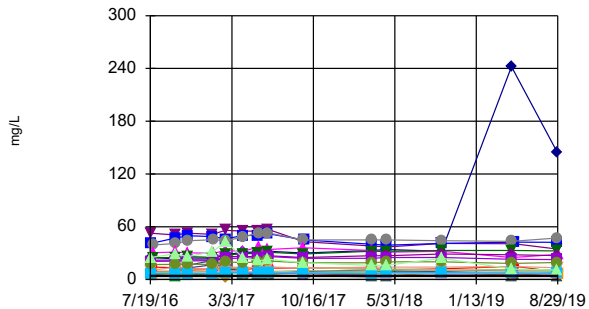


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. Annual per-constituent alpha = 0.09733. Individual comparison alpha = 0.002324 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 1/21/2020 2:08 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-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5,...

Prediction Limit
Interwell Parametric

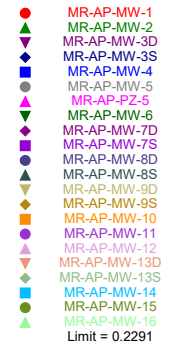
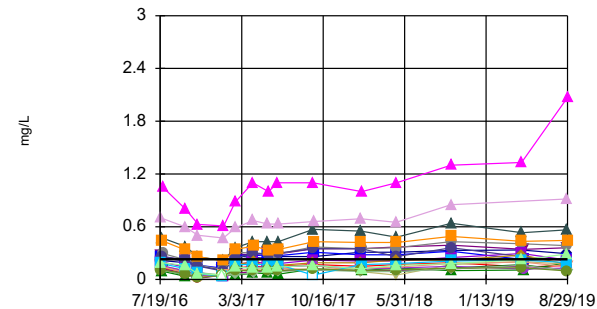


Background Data Summary: Mean=3.208, Std. Dev.=0.3276, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9508, critical = 0.888. Kappa = 2.402 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 1/21/2020 2:08 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-PZ-5, MR-AP-MW-8S, MR-AP-MW-10,...

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=0.1183, Std. Dev.=0.04659, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.894. Kappa = 2.378 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 1/21/2020 2:09 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9D	MR-AP-MW-9S	MR-AP-MW-7D	MR-AP-MW-7S	MR-AP-MW-10	MR-AP-MW-1	MR-AP-MW-11	MR-AP-MW-8S	MR-AP-MW-2
7/19/2016									
7/20/2016	0.644	0.295							
7/21/2016			0.744	0.69					
7/25/2016					3.36	0.0978 (J)	0.0282 (J)	1.56	0.0922 (J)
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016						0.0625 (J)			
9/27/2016		0.282	0.711	0.669	3.18		0.0253 (J)	1.55	
9/28/2016	0.641								0.126
10/25/2016									
10/31/2016					3.32				
11/1/2016	0.671		0.745	0.697			0.0266 (J)	1.47	0.0959 (J)
11/2/2016		0.293				0.067 (J)			
12/13/2016									
1/9/2017									
1/10/2017	0.696		0.733	0.705				1.52	
1/11/2017					3.05	0.0588 (J)			0.0976 (J)
1/12/2017		0.358					0.0268 (J)		
2/6/2017									
2/8/2017									
2/13/2017						0.0561 (J)	0.0263 (J)		
2/14/2017			0.753	0.722	2.87			1.46	0.147
2/15/2017	0.708	0.398							
3/28/2017									
3/29/2017									
4/3/2017						0.0631 (J)			
4/4/2017	0.716		0.755	0.727			0.0252 (J)	1.58	0.121
4/6/2017		0.367			2.87				
4/24/2017									
4/26/2017									
5/15/2017						0.0636 (J)			
5/16/2017			0.691	0.647			0.0319 (J)	1.45	0.167
5/17/2017	0.735	0.358			2.71				
6/7/2017									
6/12/2017									
6/13/2017	0.695		0.715	0.673	2.67			1.59	
6/14/2017		0.406				0.0603 (J)	0.026 (J)		0.159
8/21/2017									
8/22/2017									
9/18/2017			0.734	0.697					
9/19/2017	0.716	0.409				0.0559 (J)	0.0253 (J)	1.76	
9/20/2017									0.148
9/21/2017					3.08				
5/7/2018									
5/8/2018	0.722	0.399					<0.1		
5/9/2018			0.727	0.692		0.0437 (J)		1.05	0.145
5/10/2018					3.04				
5/15/2018									
10/8/2018					3.46				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-8D	MR-AP-MW-5	MR-AP-PZ-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
7/19/2016						
7/20/2016						
7/21/2016						
7/25/2016	0.916					
7/26/2016		0.873	0.434	0.835		
8/2/2016					0.1	
8/3/2016						0.0239 (J)
9/20/2016					0.1	
9/21/2016						0.1
9/26/2016						
9/27/2016						
9/28/2016	1.03	0.857	0.454	0.807		
10/25/2016					0.1	0.1
10/31/2016						
11/1/2016	1.04			0.838		
11/2/2016		0.909	0.46			
12/13/2016					0.1	0.1
1/9/2017				0.848		
1/10/2017	1.01	0.915				
1/11/2017						
1/12/2017			0.471			
2/6/2017						0.1
2/8/2017					0.1	
2/13/2017			0.473	0.869		
2/14/2017		0.932				
2/15/2017	1.05					
3/28/2017						0.1
3/29/2017					0.1	
4/3/2017		0.932	0.424	0.881		
4/4/2017	1.15					
4/6/2017						
4/24/2017						0.1
4/26/2017					0.1	
5/15/2017						
5/16/2017				0.81		
5/17/2017	1.13	0.953	0.462			
6/7/2017					<0.1	<0.1
6/12/2017		0.854	0.418	0.832		
6/13/2017	1.13					
6/14/2017						
8/21/2017						<0.1
8/22/2017					<0.1	
9/18/2017		0.921	0.428	0.864		
9/19/2017	1.13					
9/20/2017						
9/21/2017						
5/7/2018						
5/8/2018						
5/9/2018	0.76	0.851	0.406	0.878		
5/10/2018						
5/15/2018					<0.1	<0.1
10/8/2018		0.833	0.42	0.905		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-8D	MR-AP-MW-5	MR-AP-PZ-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
10/9/2018	1.16					
10/16/2018						<0.1
10/17/2018					<0.1	
4/16/2019					<0.1	<0.1
4/22/2019						
4/23/2019		0.849	0.372	0.862		
4/24/2019	0.893					
4/29/2019						
5/1/2019						
8/27/2019						
8/28/2019	1.05	0.852		0.906		
8/29/2019			0.319			
9/24/2019						<0.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-3D	MR-AP-MW-3S	MR-AP-MW-4	MR-AP-MW-9D	MR-AP-MW-14	MR-AP-MW-13S	MR-AP-MW-13D
7/19/2016	185	37	296	5.63	333				
7/20/2016						60.6	30.5	15.5	49.9
7/21/2016									
7/25/2016									
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	189	37.5	269	4.28			29.3		
9/27/2016					320			14.3	66.5
9/28/2016						61.2			
10/25/2016									
10/31/2016	163	38.4	266	4.04			28.6		
11/1/2016					305	58		14.3	51.8
11/2/2016									
12/13/2016									
1/9/2017	214	37.8	282	4.15	329		30.3		
1/10/2017						62.6			
1/11/2017								15.1	47.2
1/12/2017									
2/6/2017									
2/8/2017									
2/13/2017			268	4.38	291				
2/14/2017	237	39.2					31.1		
2/15/2017						68.2		15.7	50.7
3/28/2017									
3/29/2017									
4/3/2017	159		282	4.45					
4/4/2017		37.5			287	65.4	31.7		48.9
4/6/2017								15.1	
4/24/2017									
4/26/2017									
5/15/2017									
5/16/2017	154	40.4	234	4.23	279				
5/17/2017						67.3	32.8	16.1	48.7
6/7/2017									
6/12/2017	146	38.4	232	4.14	258				
6/13/2017						65.8	33.4	16.2	49.2
6/14/2017									
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017	136	37.8				66	33.6	15.9	47.3
9/20/2017			211	3.88	249				
9/21/2017									
3/27/2018			191	3.4	226				
3/28/2018	136	37.7				66.8	34.3	16.1	47.3
5/7/2018	129	38.4							
5/8/2018						64.6	34	16.7	47.3
5/9/2018					212				
5/10/2018			219	3.79					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-9S	MR-AP-MW-7D	MR-AP-MW-7S	MR-AP-MW-8D	MR-AP-MW-2	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-8S
7/19/2016									
7/20/2016	178	91.9							
7/21/2016			115	88.2					
7/25/2016					46.8	209	132	164	58.5
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016									
9/27/2016	165	79.9	109	79.1			127	164	71.1
9/28/2016					52.4	240			
10/25/2016									
10/31/2016							122		
11/1/2016	160		106	78	58	213		158	77.2
11/2/2016		83.8							
12/13/2016									
1/9/2017									
1/10/2017			107	85.3	81.2				110
1/11/2017	170					218	124		
1/12/2017		62.5						163	
2/6/2017									
2/8/2017									
2/13/2017								166	
2/14/2017			114	82.7		244	125		89.3
2/15/2017	173	20.9			72.1				
3/28/2017									
3/29/2017									
4/3/2017									
4/4/2017	167		105	81.6	55.7	234		166	62.2
4/6/2017		18.6					125		
4/24/2017									
4/26/2017									
5/15/2017	169								
5/16/2017			105	78.6		241		160	57.3
5/17/2017		57.1			53.7		124		
6/7/2017									
6/12/2017									
6/13/2017			110	82.3	51.6		129		56.6
6/14/2017	177	50.7				241		166	
8/21/2017									
8/22/2017									
9/18/2017			108	81.6					
9/19/2017		50.7			51.5			165	52.5
9/20/2017						235			
9/21/2017	171						133		
3/27/2018			112	82.6		250		166	
3/28/2018	177	66			52.2		143		54.4
5/7/2018									
5/8/2018	173	57.8						132	
5/9/2018			110	81.1	50	246			48.6
5/10/2018							132		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
7/19/2016						
7/20/2016						
7/21/2016						
7/25/2016	153					
7/26/2016		135	52.8	315		
8/2/2016					47.2	
8/3/2016						6.85
9/20/2016					46.3	
9/21/2016						11.7
9/26/2016	122					
9/27/2016						
9/28/2016		141	246.4	324		
10/25/2016					46.6	10.8
10/31/2016						
11/1/2016		137				
11/2/2016	114		61.3	305		
12/13/2016					43.1	5.86
1/9/2017		140				
1/10/2017				319		
1/11/2017	112					
1/12/2017			47.7			
2/6/2017						9.76
2/8/2017					47.5	
2/13/2017	132	141	54			
2/14/2017				341		
2/15/2017						
3/28/2017						5.28
3/29/2017					46.8	
4/3/2017	168	141	28.7	329		
4/4/2017						
4/6/2017						
4/24/2017						6.89
4/26/2017					48.1	
5/15/2017	104					
5/16/2017		145				
5/17/2017			26.7	296		
6/7/2017					44.4	3.58
6/12/2017		144	26.3	263		
6/13/2017						
6/14/2017	122					
8/21/2017						3.38
8/22/2017					42.9	
9/18/2017		144	20.2	292		
9/19/2017	98.6					
9/20/2017						
9/21/2017						
3/27/2018	105	154	13.9	267		
3/28/2018						
5/7/2018						
5/8/2018						
5/9/2018	141	150	13.8	265		
5/10/2018						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
5/15/2018					44.3	4.25
10/8/2018		150	11.1	290		
10/9/2018	94.1					
10/16/2018						3.21
10/17/2018					41.8	
4/16/2019					38.6	4.43
4/22/2019						
4/23/2019		167	11.9	330		
4/24/2019						
4/29/2019						
5/1/2019	47.9					
8/27/2019	165					
8/28/2019		148		279		
8/29/2019			14.2			
9/24/2019						7.24

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-3D	MR-AP-MW-3S	MR-AP-MW-4	MR-AP-MW-9D	MR-AP-MW-14	MR-AP-MW-13S	MR-AP-MW-13D
7/19/2016	24.9	16.9	52.7	25	40.8				
7/20/2016						8.7	6.47	8.49	10.4
7/21/2016									
7/25/2016									
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	29.2	17.1	50.6	23.6			6.48		
9/27/2016					47.1			7.85	13.8
9/28/2016						8.99			
10/25/2016									
10/31/2016	25.9	17.3	52.6	24.4			6.5		
11/1/2016					49.7	9.34		7.7	12
11/2/2016									
12/13/2016									
1/9/2017	31.7	17.2	51.4	24.3	48.8		6.4		
1/10/2017						9.94			
1/11/2017								6.9	11.7
1/12/2017									
2/6/2017									
2/8/2017									
2/13/2017			56	28	46				
2/14/2017	43	20					7.8		
2/15/2017						13		9.4	15
3/28/2017									
3/29/2017									
4/3/2017	25		55	31					
4/4/2017		19			50	13	7.6		13
4/6/2017								7.5	
4/24/2017									
4/26/2017									
5/15/2017									
5/16/2017	21	20	55	31	50				
5/17/2017						14	7.8	8.9	14
6/7/2017									
6/12/2017	23	21	57	32	52				
6/13/2017						14	7.5	9.1	14
6/14/2017									
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017	19	19				13	7.5	10	13
9/20/2017			43	30	45				
9/21/2017									
3/27/2018			38	33	40				
3/28/2018	16	19				12	6.4	9.1	14
5/7/2018	16	20							
5/8/2018						12	7.6	11	14
5/9/2018					39				
5/10/2018			37	34					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-9S	MR-AP-MW-7D	MR-AP-MW-7S	MR-AP-MW-8D	MR-AP-MW-2	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-8S
7/19/2016									
7/20/2016	8.05	9.28							
7/21/2016			21.8	20.6					
7/25/2016					6.35	5.13	6.41	8.3	4.64
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016									
9/27/2016	8.37	9.44	22.1	20.7			6.3	7.94	8.74
9/28/2016					8.42	4			
10/25/2016									
10/31/2016							6.36		
11/1/2016	8.62		22.4	21.1	13.1	4.99		7.32	16.2
11/2/2016		10.2							
12/13/2016									
1/9/2017									
1/10/2017			22.2	21.3	16.8				21.7
1/11/2017	8.33					6.72	6.65		
1/12/2017		8.44						6.29	
2/6/2017									
2/8/2017									
2/13/2017								9.1	
2/14/2017			26	24		7.4	9.2		14
2/15/2017	9.9	2.7			14				
3/28/2017									
3/29/2017									
4/3/2017									
4/4/2017	9.5		26	24	8.2	8.3		7	6.5
4/6/2017		5.6					8		
4/24/2017									
4/26/2017									
5/15/2017	8.1								
5/16/2017			26	25		6.6		7.1	4.6
5/17/2017		8.3			7.1		8.1		
6/7/2017									
6/12/2017									
6/13/2017			27	26	7		8.1		4.6
6/14/2017	8	6.6				6		7.9	
8/21/2017									
8/22/2017									
9/18/2017			25	24					
9/19/2017		7.1			9.1			6.8	4.5
9/20/2017						8.3			
9/21/2017	7.7						7.7		
3/27/2018			27	24		8.7		5.7	
3/28/2018	6.5	4.3			11		7		2.9
5/7/2018									
5/8/2018	6.8	4.2						7.3	
5/9/2018			27	25	10	8.7			3.2
5/10/2018							7.4		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
7/19/2016						
7/20/2016						
7/21/2016						
7/25/2016	14.1					
7/26/2016		24.8	30.5	39.1		
8/2/2016					2.91	
8/3/2016						3.21
9/20/2016					2.94	
9/21/2016						2.95
9/26/2016	13.3					
9/27/2016						
9/28/2016		24.9	31.1	40.9		
10/25/2016					2.94	3.03
10/31/2016						
11/1/2016		26				
11/2/2016	12.1		30.2	44.1		
12/13/2016					2.93	3.21
1/9/2017		25.1				
1/10/2017				45.2		
1/11/2017	11.6					
1/12/2017			29.8			
2/6/2017						3
2/8/2017					2.85	
2/13/2017	14	28	33			
2/14/2017				44		
2/15/2017						
3/28/2017						3.3 (D)
3/29/2017					3.4 (D)	
4/3/2017	11	29	32	48		
4/4/2017						
4/6/2017						
4/24/2017						3.8 (D)
4/26/2017					3.7 (D)	
5/15/2017	13					
5/16/2017		30				
5/17/2017			37	53		
6/7/2017					3.3	3.5
6/12/2017		31	34	53		
6/13/2017						
6/14/2017	13					
8/21/2017						3.6
8/22/2017					3.4	
9/18/2017		29	36	45		
9/19/2017	13					
9/20/2017						
9/21/2017						
3/27/2018	13	32	33	45		
3/28/2018						
5/7/2018						
5/8/2018						
5/9/2018	11	32	31	45		
5/10/2018						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
5/15/2018					3.2	3.3
10/8/2018		33	32	44		
10/9/2018	12					
10/16/2018						3.3
10/17/2018					2.3	
4/16/2019					3.23	3.69
4/22/2019						
4/23/2019		33	24.9	43.3		
4/24/2019						
4/29/2019						
5/1/2019	15					
8/27/2019	8.75					
8/28/2019		32.5		47.1		
8/29/2019			28.5			
9/24/2019						3.21

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-PZ-5	MR-AP-MW-6	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
7/19/2016						
7/20/2016						
7/21/2016						
7/25/2016	0.134 (J)					
7/26/2016		1.05	0.108 (J)	0.296 (J)		
8/2/2016					0.161 (J)	
8/3/2016						0.125 (J)
9/20/2016					0.122 (J)	
9/21/2016						0.098 (J)
9/26/2016	0.061 (J)					
9/27/2016						
9/28/2016		0.799	0.054 (J)	0.224 (J)		
10/25/2016					0.058 (J)	0.025 (J)
10/31/2016						
11/1/2016			<0.1			
11/2/2016	0.024 (J)	0.627		0.164 (J)		
12/13/2016					0.072 (J)	0.045 (J)
1/9/2017			<0.1			
1/10/2017				0.114 (J)		
1/11/2017	<0.1					
1/12/2017		0.609				
2/6/2017						0.1 (D)
2/8/2017					0.16 (D)	
2/13/2017	0.13	0.88	0.08 (J)			
2/14/2017				0.31		
2/15/2017						
3/28/2017						0.08 (JD)
3/29/2017					0.14 (D)	
4/3/2017	0.15	1.1	0.07 (J)	0.3		
4/4/2017						
4/6/2017						
4/24/2017						0.09 (JD)
4/26/2017					0.16 (D)	
5/15/2017	0.14					
5/16/2017			0.09 (J)			
5/17/2017		1		0.29		
6/7/2017					0.15	0.08 (J)
6/12/2017		1.1	0.1	0.29		
6/13/2017						
6/14/2017	0.15					
8/21/2017						0.08 (J)
8/22/2017					0.18	
9/18/2017		1.1	0.11	0.37		
9/19/2017	0.17					
9/20/2017						
9/21/2017						
1/29/2018						
1/30/2018						
1/31/2018						
2/1/2018	0.15	1	0.1	0.35		
2/19/2018						0.08 (J)
2/20/2018					0.17	

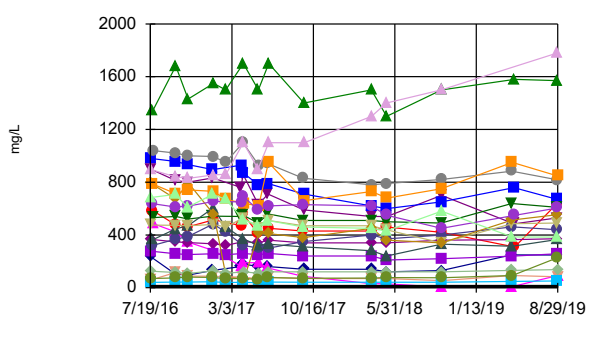
Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-PZ-5	MR-AP-MW-6	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
5/7/2018						
5/8/2018						
5/9/2018	0.17	1.1	0.09 (J)	0.36		
5/10/2018						
5/15/2018					0.17	0.1
10/8/2018		1.3	0.13	0.43		
10/9/2018	0.19					
10/16/2018						0.09 (J)
10/17/2018					0.19	
4/16/2019					0.197	0.143
4/22/2019						
4/23/2019		1.33	0.167	0.407		
4/24/2019						
4/29/2019						
5/1/2019	0.143					
8/27/2019	0.159					
8/28/2019			0.105	0.385		
8/29/2019		2.07				
9/24/2019						0.128

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5,...

Prediction Limit
Interwell Non-parametric



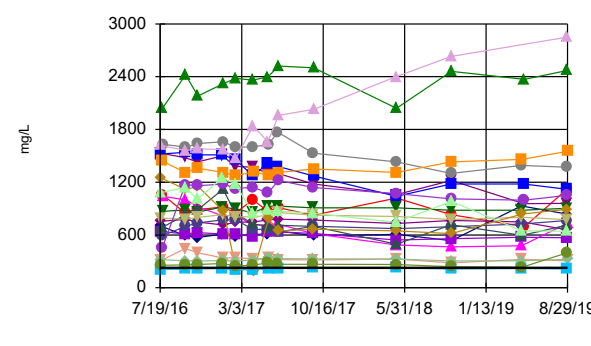
- MR-AP-MW-1
 - ▲ MR-AP-MW-2
 - ▼ MR-AP-MW-3D
 - ◆ MR-AP-MW-3S
 - MR-AP-MW-4
 - MR-AP-MW-5
 - ▲ MR-AP-PZ-5
 - ▼ MR-AP-MW-6
 - ◆ MR-AP-MW-7D
 - MR-AP-MW-7S
 - MR-AP-MW-8D
 - ▲ MR-AP-MW-8S
 - ▼ MR-AP-MW-9D
 - ◆ MR-AP-MW-9S
 - MR-AP-MW-10
 - MR-AP-MW-11
 - ▲ MR-AP-MW-12
 - ▼ MR-AP-MW-13D
 - ◆ MR-AP-MW-13S
 - MR-AP-MW-14
 - MR-AP-MW-15
 - ▲ MR-AP-MW-16
- Limit = 12.1

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 25 background values. Annual per-constituent alpha = 0.09733. Individual comparison alpha = 0.002324 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 1/21/2020 2:09 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-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5,...

Prediction Limit
Interwell Non-parametric



- MR-AP-MW-1
 - ▲ MR-AP-MW-2
 - ▼ MR-AP-MW-3D
 - ◆ MR-AP-MW-3S
 - MR-AP-MW-4
 - MR-AP-MW-5
 - ▲ MR-AP-PZ-5
 - ▼ MR-AP-MW-6
 - ◆ MR-AP-MW-7D
 - MR-AP-MW-7S
 - MR-AP-MW-8D
 - ▲ MR-AP-MW-8S
 - ▼ MR-AP-MW-9D
 - ◆ MR-AP-MW-9S
 - MR-AP-MW-10
 - MR-AP-MW-11
 - ▲ MR-AP-MW-12
 - ▼ MR-AP-MW-13D
 - ◆ MR-AP-MW-13S
 - MR-AP-MW-14
 - MR-AP-MW-15
 - ▲ MR-AP-MW-16
- Limit = 226

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 25 background values. Annual per-constituent alpha = 0.09733. Individual comparison alpha = 0.002324 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 1/21/2020 2:09 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-3D	MR-AP-MW-3S	MR-AP-MW-4	MR-AP-MW-9D	MR-AP-MW-14	MR-AP-MW-13S	MR-AP-MW-13D
7/19/2016	683	69.3	900	237	981				
7/20/2016						475	39.9	125	58.9
7/21/2016									
7/25/2016									
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	707	74.7	814	105			42.2		
9/27/2016					958			116	115
9/28/2016						474			
10/25/2016									
10/31/2016	610	80.6	800	94.9			42.7		
11/1/2016					933	470		108	87.8
11/2/2016									
12/13/2016									
1/9/2017	707	77.9	833	131	896		45.5		
1/10/2017						480			
1/11/2017								128	87.1
1/12/2017									
2/6/2017									
2/8/2017									
2/14/2017	670	68					39		
2/15/2017						460		110	82
3/28/2017									
3/29/2017			760	160					
3/30/2017					930				
4/3/2017	520		860	180					
4/4/2017		71			870	530	41		82
4/6/2017								120	
4/24/2017									
4/26/2017									
5/15/2017									
5/16/2017	470	62	630	160	780				
5/17/2017						450	37	110	66
6/7/2017									
6/12/2017	510	77	710	160	790				
6/13/2017						510	43	120	79
6/14/2017									
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017	460	72				470	41	120	69
9/20/2017			590	140	710				
9/21/2017									
3/27/2018			540	140	620				
3/28/2018	450	73				470	42	120	70
5/7/2018	430	77							
5/8/2018						440	42	120	70
5/9/2018					600				
5/10/2018			540	120					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-9S	MR-AP-MW-7D	MR-AP-MW-7S	MR-AP-MW-8D	MR-AP-MW-2	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-8S
7/19/2016									
7/20/2016	895	793							
7/21/2016			367	277					
7/25/2016					321	1340	787	637	363
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016									
9/27/2016	841	674	347	258			714	612	446
9/28/2016					368	1680			
10/25/2016									
10/31/2016							741		
11/1/2016	829		342	251	389	1430		619	471
11/2/2016		794							
12/13/2016									
1/9/2017									
1/10/2017			333	257	483				604
1/11/2017	855					1550	731		
1/12/2017		555						654	
2/6/2017									
2/8/2017									
2/14/2017			320	250		1500	670		460
2/15/2017	860	86			420				
3/28/2017									
3/29/2017									
3/30/2017								650	
4/3/2017									
4/4/2017	1100		350	260	320	1700		690	370
4/6/2017		65					640		
4/24/2017									
4/26/2017									
5/15/2017	900								
5/16/2017			340	250		1500		590	320
5/17/2017		410			300		620		
6/7/2017									
6/12/2017									
6/13/2017			360	260	300		950		330
6/14/2017	1100	410				1700		620	
8/21/2017									
8/22/2017									
9/18/2017			340	240					
9/19/2017		380			350			630	310
9/20/2017						1400			
9/21/2017	1100						660		
3/27/2018			340	240		1500		620	
3/28/2018	1300	450			400		730		280
5/7/2018									
5/8/2018	1400	360						550	
5/9/2018			340	210	370	1300			240
5/10/2018							680		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
7/19/2016						
7/20/2016						
7/21/2016						
7/25/2016	585					
7/26/2016		532	487	1040		
8/2/2016					12	
8/3/2016						4.2
9/20/2016					11.2	
9/21/2016						4.27
9/26/2016	480					
9/27/2016						
9/28/2016		540	422	1020		
10/25/2016					10.1	2.78
10/31/2016						
11/1/2016		521				
11/2/2016	462		345	1000		
12/13/2016					11.4	3.18
1/9/2017		543				
1/10/2017				995		
1/11/2017	515					
1/12/2017			281			
2/6/2017						3.74
2/8/2017					10.9	
2/14/2017				950		
2/15/2017						
3/28/2017						3.4 (JD)
3/29/2017		540			11 (D)	
3/30/2017	470		160			
4/3/2017	560	550	190	1100		
4/4/2017						
4/6/2017						
4/24/2017						2.7 (JD)
4/26/2017					11 (D)	
5/15/2017	410					
5/16/2017		490				
5/17/2017			190	930		
6/7/2017					11	2.7 (J)
6/12/2017		560	150	940		
6/13/2017						
6/14/2017	450					
8/21/2017						3.9 (J)
8/22/2017					11	
9/18/2017		510	86	830		
9/19/2017	430					
9/20/2017						
9/21/2017						
3/27/2018	430	510	31	780		
3/28/2018						
5/7/2018						
5/8/2018						
5/9/2018	460	500	29	790		
5/10/2018						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
5/15/2018					11	2.5 (J)
10/8/2018		490	4.7 (J)	820		
10/9/2018	420					
10/16/2018						2.4 (J)
10/17/2018					12	
4/16/2019					12.1	4.53
4/22/2019						
4/23/2019		638	8.17	884		
4/24/2019						
4/29/2019						
5/1/2019	309					
8/27/2019	639					
8/28/2019		609		818		
8/29/2019			92			
9/24/2019						6.61

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-3D	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-13S	MR-AP-MW-13D	MR-AP-MW-12	MR-AP-MW-14
7/19/2016	1520	1080	1530	704	255				
7/20/2016						319	307	1620	207
7/21/2016									
7/25/2016									
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016		1140	1480	594	259				211
9/27/2016	1540					306	446	1560	
9/28/2016									
10/25/2016									
10/31/2016		1010	1430	572	265				213
11/1/2016	1510					305	398	1580	
11/2/2016									
12/13/2016									
1/9/2017	1510	1250	1500	608	276				219
1/10/2017									
1/11/2017						308	338	1570	
1/12/2017									
2/6/2017									
2/8/2017									
2/13/2017	1460		1380	584					
2/14/2017		1180			246				199
2/15/2017						305	342	1470	
3/28/2017									
3/29/2017									
4/3/2017		846	1370	606					
4/4/2017	1270				257		328	1840	209
4/6/2017						315			
4/24/2017									
4/26/2017									
5/15/2017								1660	
5/16/2017	1420	880	1300	608	283				
5/17/2017						335	336		213
6/7/2017									
6/12/2017	1380	872	1300	644	266				
6/13/2017						331	319		217
6/14/2017								1960	
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017		848			266	328	315		230
9/20/2017	1270		1180	592					
9/21/2017								2030	
5/7/2018		742			264				
5/8/2018						326	326	2400	224
5/9/2018	1040								
5/10/2018			1060	606					
5/15/2018									
10/8/2018	1180 (D)							2630 (D)	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9D	MR-AP-MW-9S	MR-AP-MW-7D	MR-AP-MW-7S	MR-AP-MW-10	MR-AP-MW-1	MR-AP-MW-11	MR-AP-MW-8S	MR-AP-MW-2
7/19/2016									
7/20/2016	792	1250							
7/21/2016			756	640					
7/25/2016					1440	1060	456	686	2040
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016						852			
9/27/2016		1120	778	612	1310		1170	828	
9/28/2016	780								2420
10/25/2016									
10/31/2016					1360				
11/1/2016	800		746	626			1160	888	2180
11/2/2016		1150				888			
12/13/2016									
1/9/2017									
1/10/2017	832		714	610				1120	
1/11/2017					1310	920			2320
1/12/2017		866					1180		
2/6/2017									
2/8/2017									
2/13/2017						848	1130		
2/14/2017			744	608	1270			844	2380
2/15/2017	804	221							
3/28/2017									
3/29/2017									
4/3/2017						1000			
4/4/2017	808		746	582			1140	726	2360
4/6/2017		195			1320				
4/24/2017									
4/26/2017									
5/15/2017						870			
5/16/2017			772	630			1080	698	2400
5/17/2017	822	782			1280				
6/7/2017									
6/12/2017									
6/13/2017	856		780	636	1310			710	
6/14/2017		646				910	1220		2520
8/21/2017									
8/22/2017									
9/18/2017			770	618					
9/19/2017	824	664				824	1140	698	
9/20/2017									2500
9/21/2017					1350				
5/7/2018									
5/8/2018	810	646					1070		
5/9/2018			730	542		1020		496	2040
5/10/2018					1310				
5/15/2018									
10/8/2018					1430 (D)				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-8D	MR-AP-MW-5	MR-AP-PZ-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
7/19/2016						
7/20/2016						
7/21/2016						
7/25/2016	592					
7/26/2016		1630	1040	868		
8/2/2016					221	
8/3/2016						113
9/20/2016					221	
9/21/2016						128
9/26/2016						
9/27/2016						
9/28/2016	698	1600	1000	884		
10/25/2016					226	121
10/31/2016						
11/1/2016	738			862		
11/2/2016		1640	920			
12/13/2016					211	101
1/9/2017				918		
1/10/2017	772	1660				
1/11/2017						
1/12/2017			812			
2/6/2017						108
2/8/2017					212	
2/13/2017			832	896		
2/14/2017		1600				
2/15/2017	772					
3/28/2017						91
3/29/2017					217	
4/3/2017		1600	710	852		
4/4/2017	662					
4/6/2017						
4/24/2017						89.3
4/26/2017					202	
5/15/2017						
5/16/2017				924		
5/17/2017	664	1630	718			
6/7/2017					218	84
6/12/2017		1770	724	928		
6/13/2017	632					
6/14/2017						
8/21/2017						91.3
8/22/2017					224	
9/18/2017		1530	616	908		
9/19/2017	700					
9/20/2017						
9/21/2017						
5/7/2018						
5/8/2018						
5/9/2018	672	1430	486	908		
5/10/2018						
5/15/2018					209	94.7
10/8/2018		1300 (D)	464 (D)	882 (D)		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 2:12 PM View: PLs - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-8D	MR-AP-MW-5	MR-AP-PZ-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)
10/9/2018	694 (D)					
10/16/2018						76.7
10/17/2018					208	
4/16/2019					185	92
4/22/2019						
4/23/2019		1390	478	882		
4/24/2019	724					
4/29/2019						
5/1/2019						
8/27/2019						
8/28/2019	764	1370		903		
8/29/2019			734			
9/24/2019						109

Intrawell Prediction Limit - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:15 PM

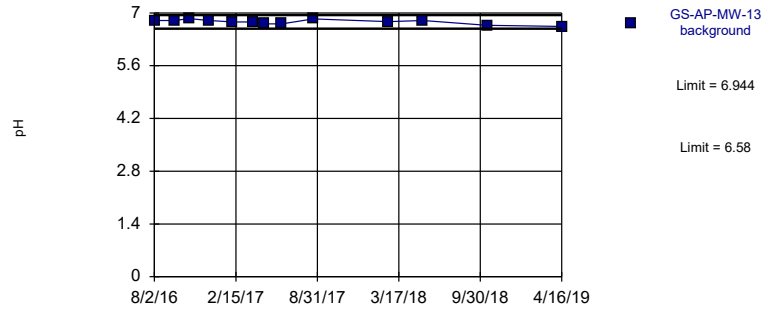
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (pH)	GS-AP-MW-8	6.082	5.535	9/24/2019	5.27	Yes	13	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-1	11.01	7.52	8/27/2019	7.48	Yes	15	0	n/a	0.01507	NP Intra (normality) ...
pH (pH)	MR-AP-MW-4	6.035	5.617	8/27/2019	6.04	Yes	15	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-7D	6.837	6.604	8/28/2019	6.58	Yes	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-9D	5.866	5.577	8/27/2019	5.44	Yes	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-16	6.26	5.812	8/28/2019	6.34	Yes	14	0	No	0.000171	Param Intra 1 of 2

Intrawell Prediction Limit - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (pH)	GS-AP-MW-13	6.944	6.58	n/a	1 future	n/a	13	0	No	0.000171	Param Intra 1 of 2
pH (pH)	GS-AP-MW-8	6.082	5.535	9/24/2019	5.27	Yes	13	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-1	11.01	7.52	8/27/2019	7.48	Yes	15	0	n/a	0.01507	NP Intra (normality) ...
pH (pH)	MR-AP-MW-2	6.374	5.842	8/27/2019	6.25	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-3D	6.926	6.607	8/27/2019	6.84	No	15	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-3S	10.03	8.622	8/27/2019	9.23	No	15	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-4	6.035	5.617	8/27/2019	6.04	Yes	15	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-5	7.298	6.867	8/28/2019	7.08	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-PZ-5	8.677	7.45	8/29/2019	8.26	No	15	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-6	6.219	5.846	8/28/2019	5.98	No	15	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-7D	6.837	6.604	8/28/2019	6.58	Yes	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-7S	6.644	6.366	8/28/2019	6.56	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-8D	6.67	5.89	8/28/2019	6.09	No	14	0	x^4	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-8S	6.899	6.533	8/28/2019	6.78	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-9D	5.866	5.577	8/27/2019	5.44	Yes	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-9S	6.369	5.083	8/27/2019	5.53	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-10	6.969	6.615	8/29/2019	6.93	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-11	7.3	6.5	8/28/2019	7.22	No	15	0	n/a	0.01507	NP Intra (normality) ...
pH (pH)	MR-AP-MW-12	6.7	6.44	8/28/2019	6.63	No	13	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-13D	6.968	6.399	8/29/2019	6.8	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-13S	5.769	5.452	8/29/2019	5.67	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-14	6.562	6.154	8/28/2019	6.31	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-15	6.606	6.337	8/28/2019	6.38	No	14	0	No	0.000171	Param Intra 1 of 2
pH (pH)	MR-AP-MW-16	6.26	5.812	8/28/2019	6.34	Yes	14	0	No	0.000171	Param Intra 1 of 2

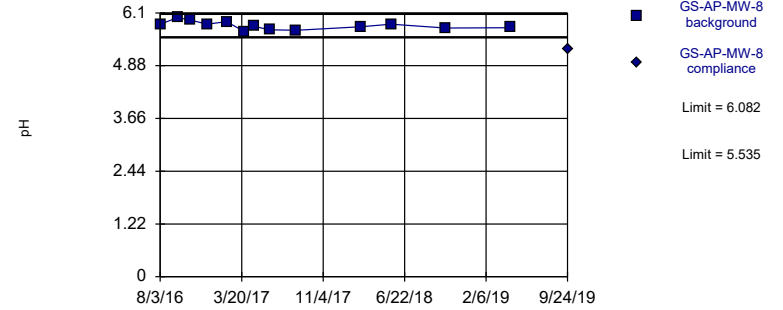
Prediction Limit Intrawell Parametric, GS-AP-MW-13 (bg)



Background Data Summary: Mean=6.762, Std. Dev.=0.06353, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.934, critical = 0.814. Kappa = 2.864 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342. Assumes 1 future value.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

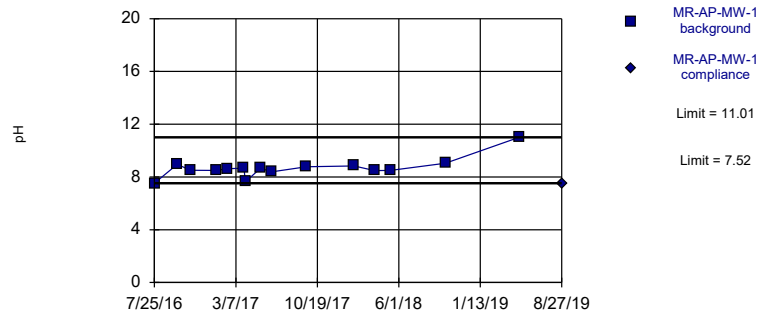
Exceeds Limits Prediction Limit Intrawell Parametric



Background Data Summary: Mean=5.808, Std. Dev.=0.09538, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9646, critical = 0.814. Kappa = 2.864 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

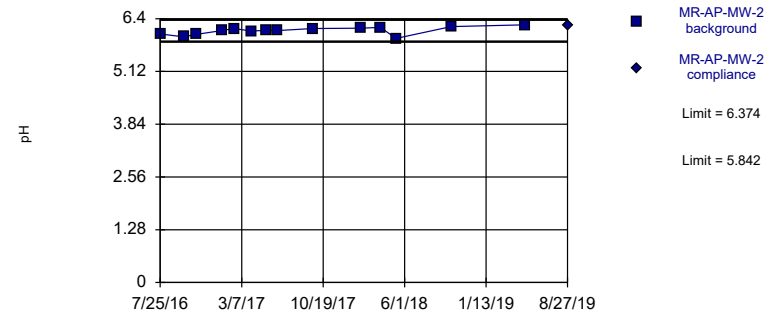
Exceeds Limits Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits Prediction Limit Intrawell Parametric



Background Data Summary: Mean=6.108, Std. Dev.=0.09521, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

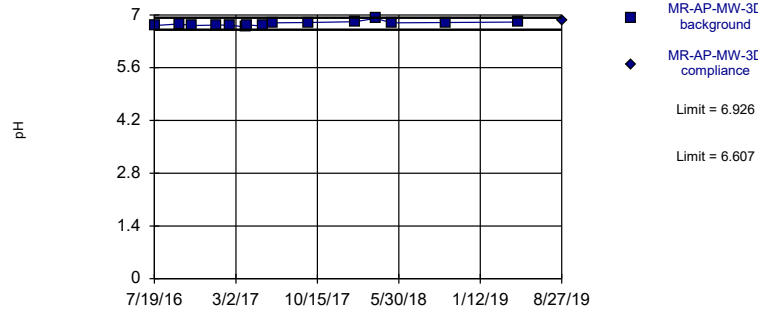
Constituent: pH Analysis Run 1/21/2020 2:15 PM View: PLs - Intrawell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13	GS-AP-MW-8	GS-AP-MW-8	MR-AP-MW-1	MR-AP-MW-1	MR-AP-MW-2	MR-AP-MW-2
7/25/2016				7.52		6.03	
8/2/2016	6.8						
8/3/2016		5.84					
9/20/2016	6.8						
9/21/2016		5.99					
9/26/2016				8.96			
9/28/2016						5.96	
10/25/2016	6.85	5.94					
11/1/2016						6.02	
11/2/2016				8.51			
12/13/2016	6.8	5.84					
1/11/2017				8.5		6.11	
2/6/2017		5.9					
2/8/2017	6.76						
2/13/2017				8.63			
2/14/2017						6.16	
3/28/2017		5.67					
3/29/2017	6.76						
3/30/2017				8.67			
4/3/2017				7.63			
4/4/2017						6.1	
4/24/2017		5.79					
4/26/2017	6.71						
5/15/2017				8.67			
5/16/2017						6.12	
6/7/2017	6.71	5.71					
6/14/2017				8.39		6.11	
8/21/2017		5.7					
8/22/2017	6.84						
9/19/2017				8.78			
9/20/2017						6.16	
1/29/2018				8.84			
1/30/2018						6.17	
2/19/2018		5.78					
2/20/2018	6.77						
3/27/2018				8.48 (D)		6.19 (D)	
5/9/2018				8.49		5.92	
5/15/2018	6.8	5.84					
10/9/2018				9.04		6.21	
10/16/2018		5.75 (D)					
10/17/2018	6.67 (D)						
4/16/2019	6.64	5.76					
5/1/2019				11.01		6.25	
8/27/2019					7.48		6.25
9/24/2019			5.27				

Within Limits

Prediction Limit
Intrawell Parametric

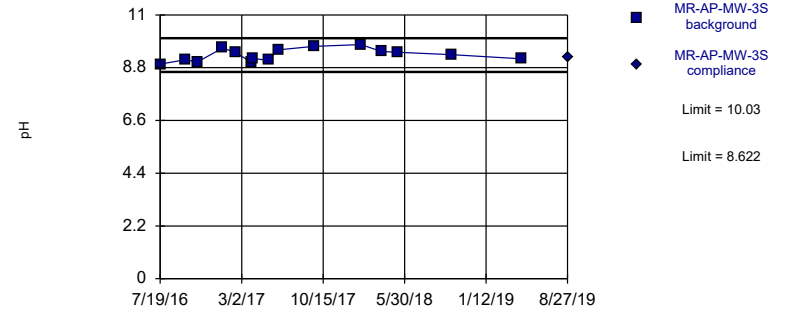


Background Data Summary: Mean=6.767, Std. Dev.=0.05839, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9208, critical = 0.835. Kappa = 2.731 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

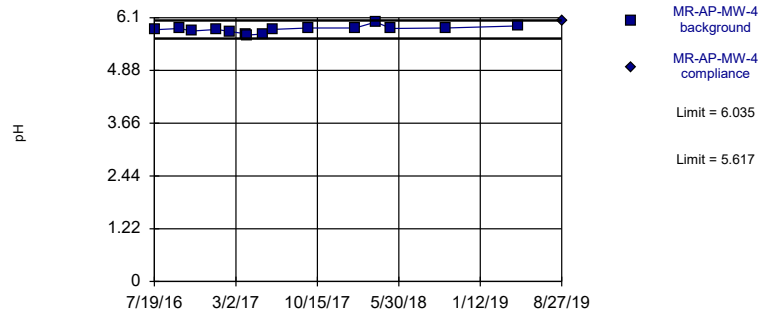


Background Data Summary: Mean=9.328, Std. Dev.=0.2584, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.835. Kappa = 2.731 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

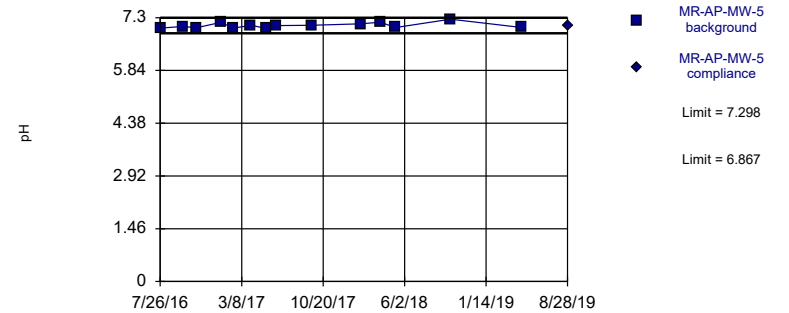


Background Data Summary: Mean=5.826, Std. Dev.=0.07642, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9436, critical = 0.835. Kappa = 2.731 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

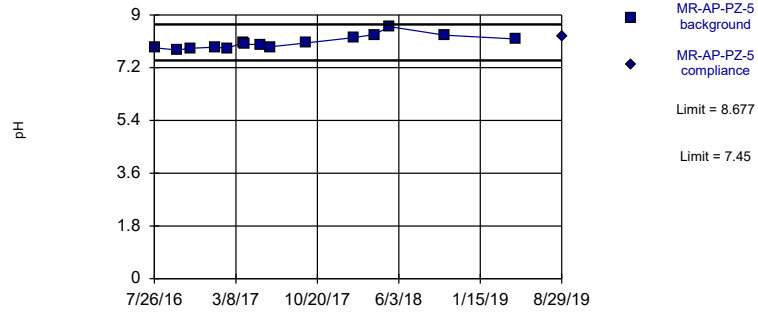


Background Data Summary: Mean=7.083, Std. Dev.=0.07713, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8926, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

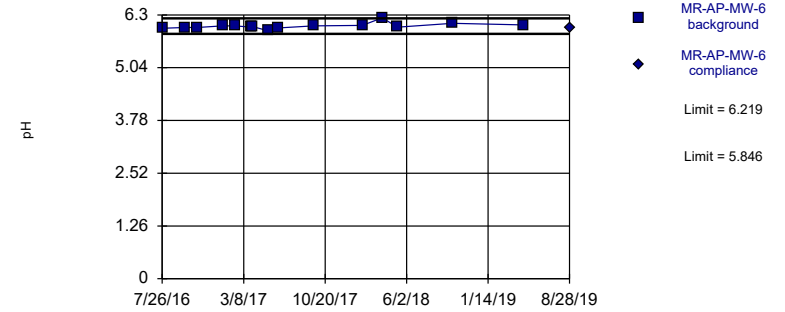


Background Data Summary: Mean=8.063, Std. Dev.=0.2247, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.902, critical = 0.835. Kappa = 2.731 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

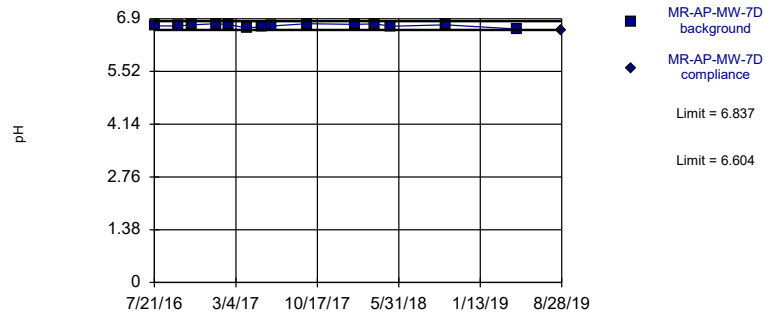


Background Data Summary: Mean=6.033, Std. Dev.=0.06829, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8496, critical = 0.835. Kappa = 2.731 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

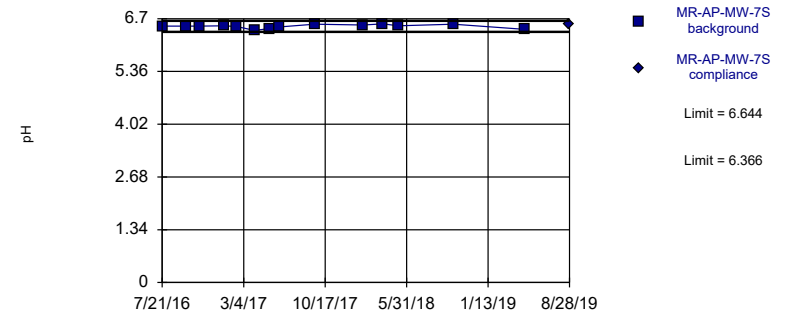


Background Data Summary: Mean=6.72, Std. Dev.=0.04153, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.926, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.505, Std. Dev.=0.04958, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9225, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

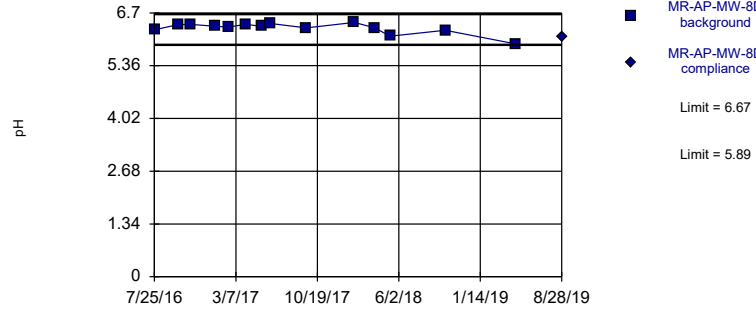
Constituent: pH Analysis Run 1/21/2020 2:15 PM View: PLs - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-PZ-5	MR-AP-PZ-5	MR-AP-MW-6	MR-AP-MW-6	MR-AP-MW-7D	MR-AP-MW-7D	MR-AP-MW-7S	MR-AP-MW-7S
7/21/2016					6.71		6.51	
7/26/2016	7.88		5.98					
9/27/2016					6.71		6.51	
9/28/2016	7.8		6					
11/1/2016			6		6.74		6.51	
11/2/2016	7.86							
1/9/2017			6.04					
1/10/2017					6.77		6.52	
1/12/2017	7.9							
2/13/2017	7.86		6.04					
2/14/2017					6.74		6.5	
3/29/2017			6.01					
3/30/2017	8.06							
4/3/2017	8		6.02					
4/4/2017					6.66		6.4	
5/16/2017			5.92		6.69		6.45	
5/17/2017	7.99							
6/12/2017	7.91		5.99					
6/13/2017					6.71		6.49	
9/18/2017	8.04		6.04		6.77		6.56	
1/29/2018					6.75			
1/30/2018							6.54	
1/31/2018	8.23		6.05					
3/27/2018	8.33 (D)		6.23 (D)		6.765 (D)		6.57 (D)	
5/9/2018	8.6		6.01		6.7		6.52	
10/8/2018	8.31		6.1					
10/9/2018					6.74		6.56	
4/23/2019	8.18		6.06					
4/24/2019					6.63		6.43	
8/28/2019				5.98		6.58		6.56
8/29/2019		8.26						

Within Limits

Prediction Limit
Intrawell Parametric

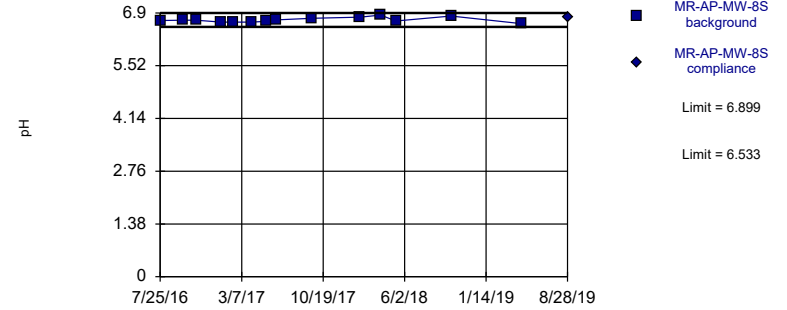


Background Data Summary (based on x⁴ transformation): Mean=1591, Std. Dev.=138.6, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8315, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

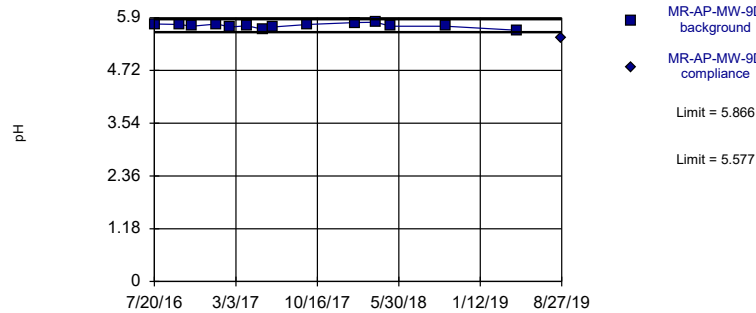


Background Data Summary: Mean=6.716, Std. Dev.=0.06552, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9306, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

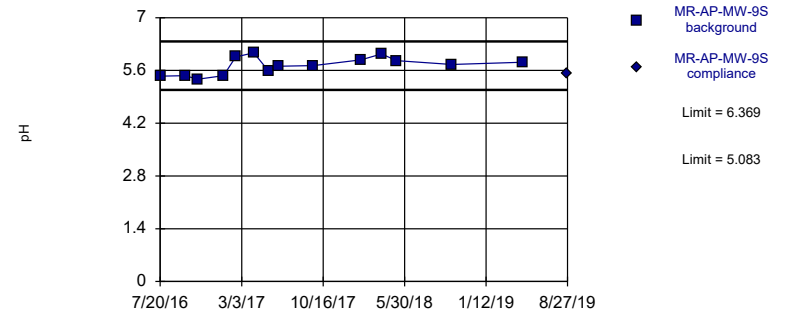


Background Data Summary: Mean=5.721, Std. Dev.=0.05172, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.955, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:13 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.726, Std. Dev.=0.2298, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

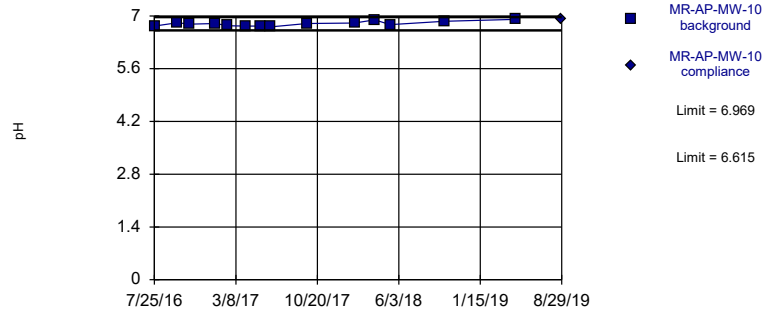
Constituent: pH Analysis Run 1/21/2020 2:15 PM View: PLs - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-8D	MR-AP-MW-8D	MR-AP-MW-8S	MR-AP-MW-8S	MR-AP-MW-9D	MR-AP-MW-9D	MR-AP-MW-9S	MR-AP-MW-9S
7/20/2016					5.76		5.45	
7/25/2016	6.27		6.7					
9/27/2016			6.71				5.46	
9/28/2016	6.4				5.75			
11/1/2016	6.41		6.71		5.71			
11/2/2016							5.37	
1/10/2017	6.36		6.66		5.76			
1/12/2017							5.46	
2/14/2017			6.66					
2/15/2017	6.34				5.69		5.96	
4/4/2017	6.41		6.66		5.72			
4/6/2017							6.07	
5/16/2017			6.68					
5/17/2017	6.36				5.64		5.59	
6/13/2017	6.43		6.72		5.69			
6/14/2017							5.71	
9/19/2017	6.32		6.76		5.75		5.73	
1/30/2018	6.46		6.79		5.79		5.88	
3/28/2018	6.32 (D)		6.845 (D)		5.8 (D)		6.04 (D)	
5/8/2018					5.71		5.86	
5/9/2018	6.11		6.69					
10/9/2018	6.26		6.82		5.71		5.76	
4/24/2019	5.91		6.62		5.62		5.82	
8/27/2019						5.44		5.53
8/28/2019		6.09		6.78				

Within Limits

Prediction Limit
Intrawell Parametric

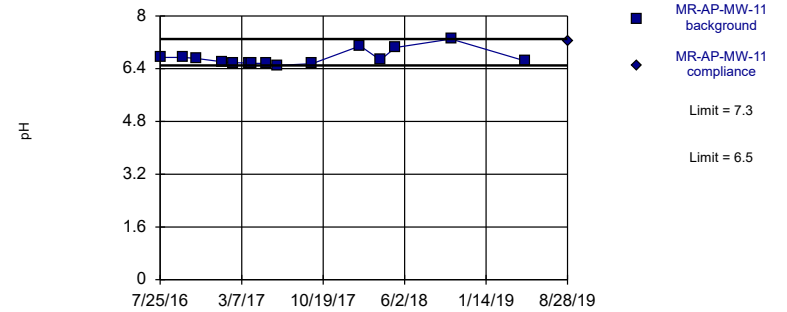


Background Data Summary: Mean=6.792, Std. Dev.=0.06323, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9253, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Non-parametric

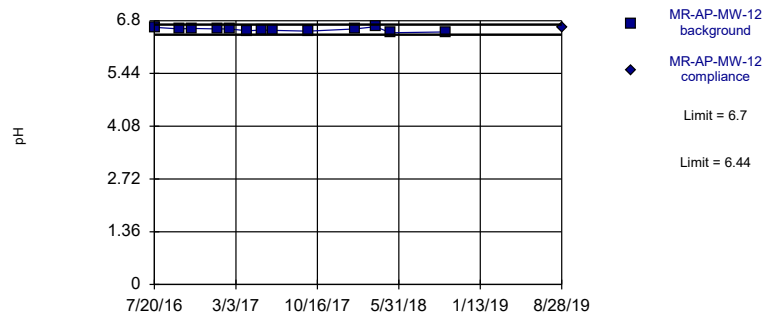


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

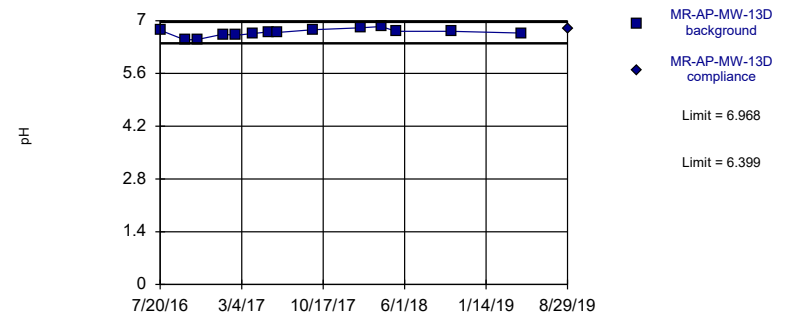


Background Data Summary: Mean=6.57, Std. Dev.=0.04539, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9642, critical = 0.814. Kappa = 2.864 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.683, Std. Dev.=0.1017, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9493, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

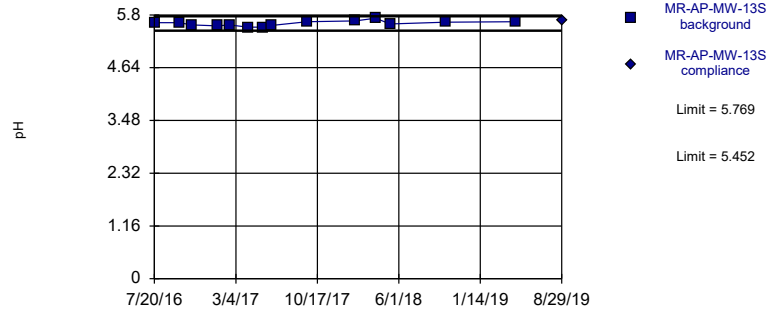
Constituent: pH Analysis Run 1/21/2020 2:15 PM View: PLs - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-10	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-12	MR-AP-MW-13D	MR-AP-MW-13D
7/20/2016					6.63		6.75	
7/25/2016	6.73		6.74					
9/27/2016	6.82		6.74		6.59		6.49	
10/31/2016	6.78							
11/1/2016			6.71		6.6		6.5	
1/11/2017	6.8				6.59		6.64	
1/12/2017			6.61					
2/13/2017			6.58					
2/14/2017	6.74							
2/15/2017					6.59		6.61	
3/30/2017			6.57					
4/4/2017			6.56		6.54		6.66	
4/6/2017	6.73							
5/15/2017					6.56			
5/16/2017			6.56					
5/17/2017	6.73						6.7	
6/13/2017	6.71						6.69	
6/14/2017			6.5		6.55			
9/19/2017			6.55				6.76	
9/21/2017	6.8				6.53			
1/30/2018			7.09		6.59			
1/31/2018	6.81						6.81	
3/27/2018			6.665 (D)					
3/28/2018	6.895 (D)				6.645 (D)		6.845 (D)	
5/8/2018			7.04		6.49		6.72	
5/10/2018	6.77							
10/8/2018	6.86				6.51			
10/9/2018			7.3				6.72	
4/24/2019	6.91						6.67	
5/1/2019			6.64					
8/28/2019				7.22		6.63		
8/29/2019		6.93						6.8

Within Limits

Prediction Limit Intrawell Parametric

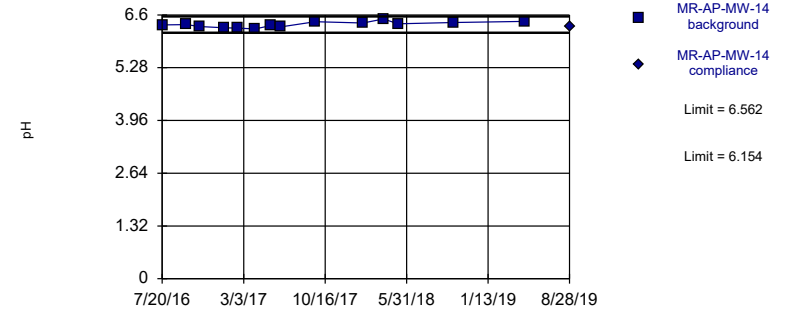


Background Data Summary: Mean=5.611, Std. Dev.=0.05663, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

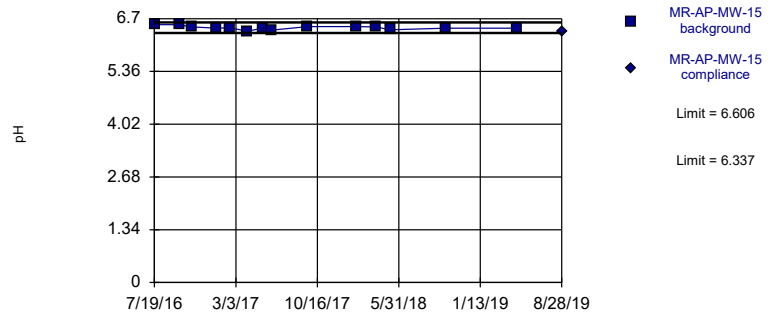


Background Data Summary: Mean=6.358, Std. Dev.=0.07287, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.975, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

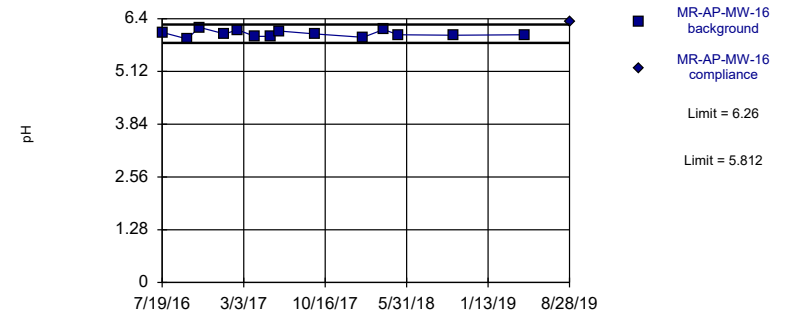


Background Data Summary: Mean=6.471, Std. Dev.=0.04802, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=6.036, Std. Dev.=0.08006, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.825. Kappa = 2.797 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.000342.

Constituent: pH Analysis Run 1/21/2020 2:14 PM View: PLs - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

Constituent: pH Analysis Run 1/21/2020 2:15 PM View: PLS - Intrawell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-13S	MR-AP-MW-13S	MR-AP-MW-14	MR-AP-MW-14	MR-AP-MW-15	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-16
7/19/2016					6.55		6.07	
7/20/2016	5.63		6.35					
9/26/2016			6.36		6.55		5.91	
9/27/2016	5.63							
10/31/2016			6.31		6.49		6.19	
11/1/2016	5.58							
1/9/2017			6.28		6.46		6.03	
1/11/2017	5.56							
2/14/2017			6.27		6.47		6.13	
2/15/2017	5.58							
4/3/2017							5.97	
4/4/2017			6.25		6.38			
4/6/2017	5.53							
5/16/2017					6.46		5.97	
5/17/2017	5.53		6.33					
6/12/2017					6.41		6.1	
6/13/2017	5.57		6.3					
9/19/2017	5.65		6.43		6.5		6.03	
1/30/2018			6.4				5.95	
1/31/2018	5.67				6.5			
3/28/2018	5.73 (D)		6.5 (D)		6.49 (D)		6.14 (D)	
5/7/2018					6.42		6.01	
5/8/2018	5.6		6.38					
10/9/2018	5.64		6.41		6.46		6	
4/24/2019	5.65		6.44		6.46		6.01	
8/28/2019				6.31		6.38		6.34
8/29/2019		5.67						

Trend Test Summary Table

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:24 PM

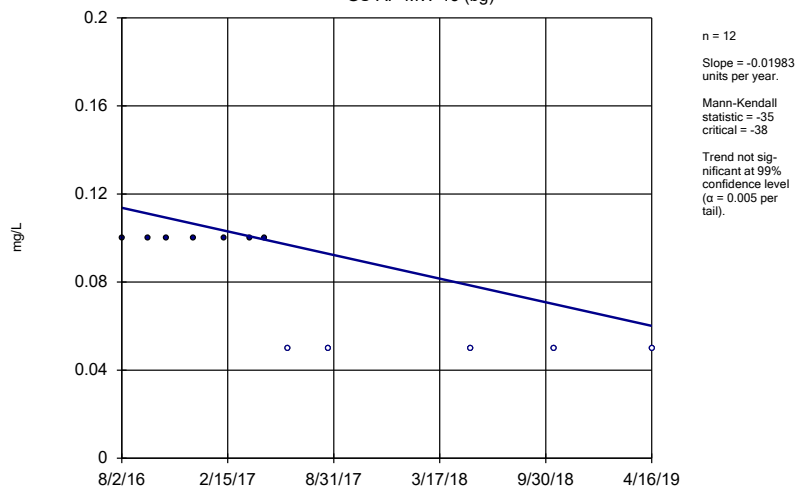
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GS-AP-MW-13 (bg)	-0.01983	-35	-38	No	12	41.67	n/a	n/a	0.01	NP
Boron (mg/L)	GS-AP-MW-8 (bg)	0	-24	-43	No	13	46.15	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-2	0.03495	50	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-3D	-0.05102	-51	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-3S	0.001882	7	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-4	-0.02734	-34	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-5	-0.01029	-21	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-PZ-5	-0.03204	-42	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-6	0.02362	40	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-7D	0.009808	26	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-7S	0.01771	35	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-8D	0.02556	16	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-8S	0.05715	18	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-9D	0.03464	59	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-9S	0.07445	61	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-10	0.104	9	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-12	1.782	50	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-13S	0.01307	53	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-14	-0.00912	-19	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-15	0.04088	43	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	MR-AP-MW-16	0.004568	1	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GS-AP-MW-8 (bg)	-2.217	-34	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-1	-15.52	-24	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-2	16.49	63	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-3D	-34.44	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-4	-49.13	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-5	-16.64	-29	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-6	7.526	66	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-7D	2.3	24	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-7S	0.7736	12	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-8D	-0.9228	-15	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-8S	-7.194	-47	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-9D	1.537	36	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-9S	-2.201	-4	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-10	14.6	54	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-11	-7.087	-22	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-12	2.285	8	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-15	0.6222	36	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MR-AP-MW-16	-25.72	-50	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GS-AP-MW-8 (bg)	0.1539	30	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-1	-0.6582	-24	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-2	1.05	33	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-3D	-6.257	-40	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-3S	7.285	69	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-4	-1.817	-20	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-5	0.9349	16	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-PZ-5	-0.4948	-5	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-6	3.244	78	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-7D	2.143	69	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-7S	0.9456	36	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-8D	0.7345	11	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-8S	-1.819	-48	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-9D	0.5514	16	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-9S	-1.287	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-10	0.2897	12	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-11	-0.5278	-45	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-12	-0.8283	-40	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-13D	0.6464	34	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-13S	0.7634	42	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-14	0.09481	13	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-15	0.7976	36	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MR-AP-MW-16	-5.763	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GS-AP-MW-8 (bg)	0.009456	23	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-3D	0.06257	61	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-3S	0.05143	59	48	Yes	14	0	n/a	n/a	0.01	NP

Trend Test Summary Table

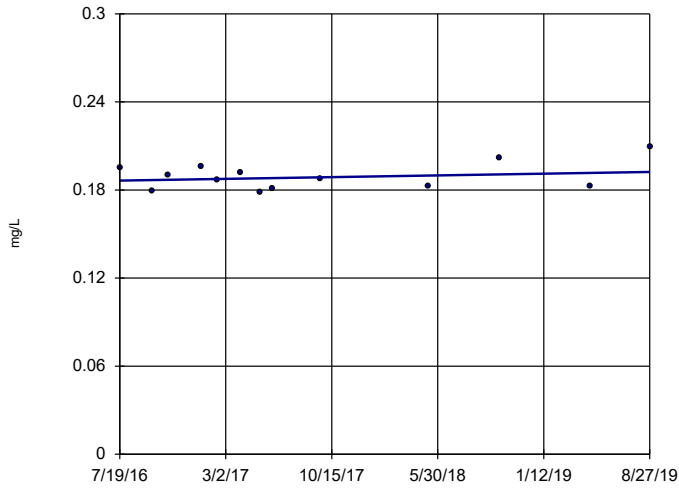
Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride (mg/L)	MR-AP-MW-4	0.02003	26	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-5	0.06083	54	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-PZ-5	0.2547	58	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-8S	0.08089	50	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-10	0.05033	45	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-12	0.1035	37	43	No	13	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MR-AP-MW-16	0.02744	28	48	No	14	7.143	n/a	n/a	0.01	NP
pH (pH)	GS-AP-MW-13 (bg)	-0.05825	-34	-43	No	13	0	n/a	n/a	0.01	NP
pH (pH)	GS-AP-MW-8 (bg)	-0.0911	-44	-48	No	14	0	n/a	n/a	0.01	NP
pH (pH)	MR-AP-MW-1	0.2255	19	58	No	16	0	n/a	n/a	0.01	NP
pH (pH)	MR-AP-MW-4	0.04526	55	58	No	16	0	n/a	n/a	0.01	NP
pH (pH)	MR-AP-MW-7D	-0.01443	-18	-53	No	15	0	n/a	n/a	0.01	NP
pH (pH)	MR-AP-MW-9D	-0.03259	-29	-53	No	15	0	n/a	n/a	0.01	NP
pH (pH)	MR-AP-MW-16	0.008968	4	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GS-AP-MW-8 (bg)	-0.1847	-7	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-1	-40.33	-34	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-2	0	6	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-3D	-132.4	-66	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-3S	12.28	13	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-4	-169.9	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-5	-99.88	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-PZ-5	-162.1	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-6	0	2	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-7D	5.794	18	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-7S	-12.51	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-8D	-27.39	23	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-8S	-57.06	-40	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-9D	-4.284	-10	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-9S	-62.58	-22	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-10	19.38	12	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-11	-28.27	-36	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-12	318.6	63	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-13D	-9.799	-17	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-13S	3.859	31	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-14	1.244	23	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-15	4.557	30	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MR-AP-MW-16	-107.8	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	GS-AP-MW-8 (bg)	-12.19	-30	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-1	-26.11	-10	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-2	78.17	27	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-3D	-212.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-3S	22.03	12	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-4	-163.1	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-5	-95.91	-40	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-PZ-5	-232.1	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-6	7.301	10	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-7D	-6.92	-11	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-7S	-20.93	-36	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-8D	16.01	13	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-8S	-63.62	-27	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-9D	-0.05363	0	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-9S	-122.5	-21	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-10	40.5	22	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-11	-48.09	-27	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-12	498.3	48	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-13D	-25.64	-41	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-13S	0.8719	6	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-15	1.38	3	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	MR-AP-MW-16	-150.1	-48	-43	Yes	13	0	n/a	n/a	0.01	NP

Sen's Slope Estimator GS-AP-MW-13 (bg)



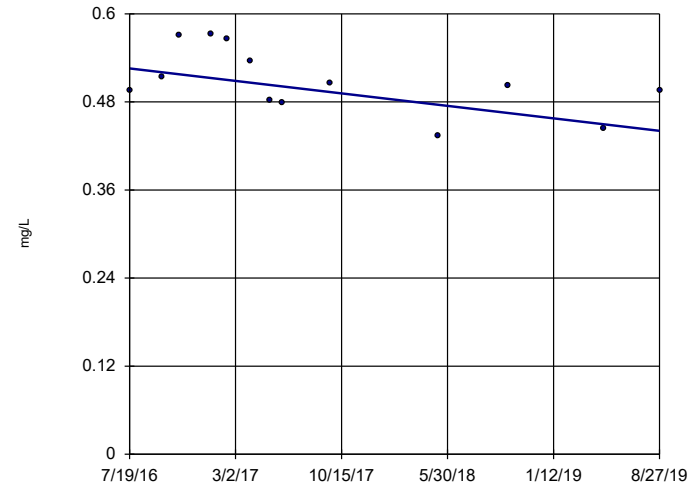
Sen's Slope Estimator MR-AP-MW-3S



n = 13
 Slope = 0.001882
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:18 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

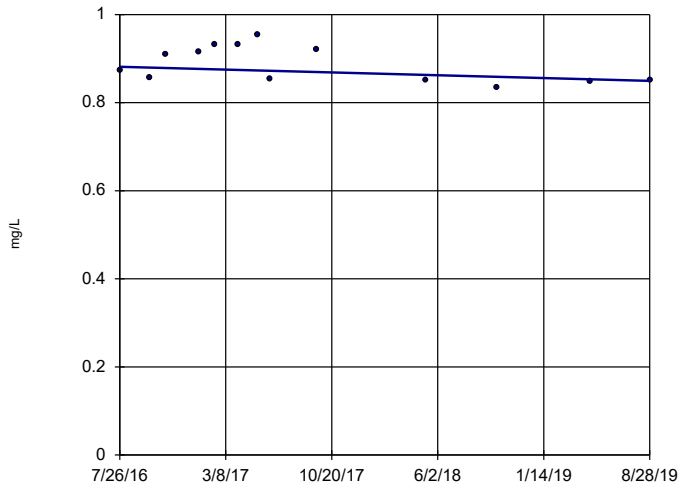
Sen's Slope Estimator MR-AP-MW-4



n = 13
 Slope = -0.02734
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:18 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

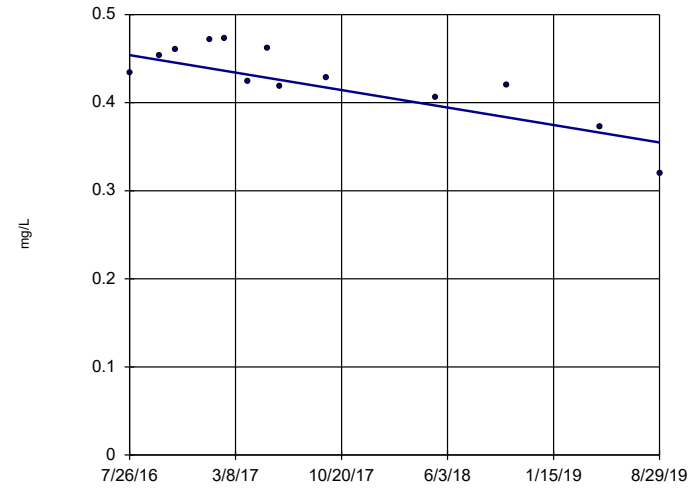
Sen's Slope Estimator MR-AP-MW-5



n = 13
 Slope = -0.01029
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:18 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator MR-AP-PZ-5

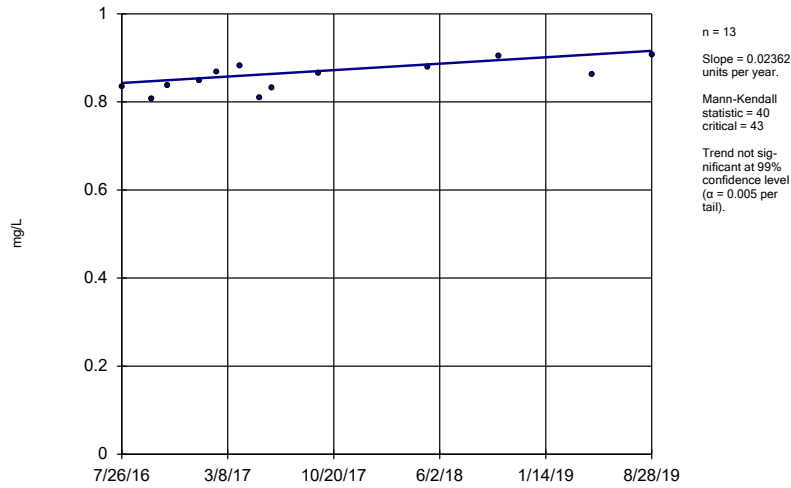


n = 13
 Slope = -0.03204
 units per year.
 Mann-Kendall
 statistic = -42
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:18 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

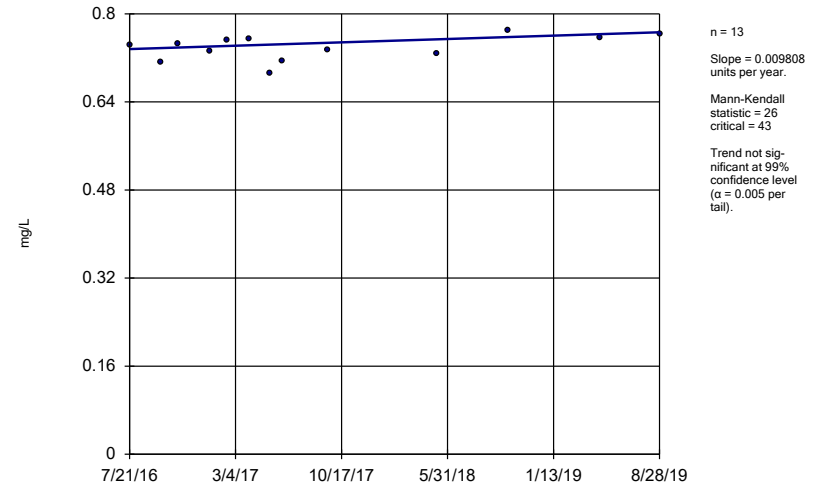
MR-AP-MW-6



Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

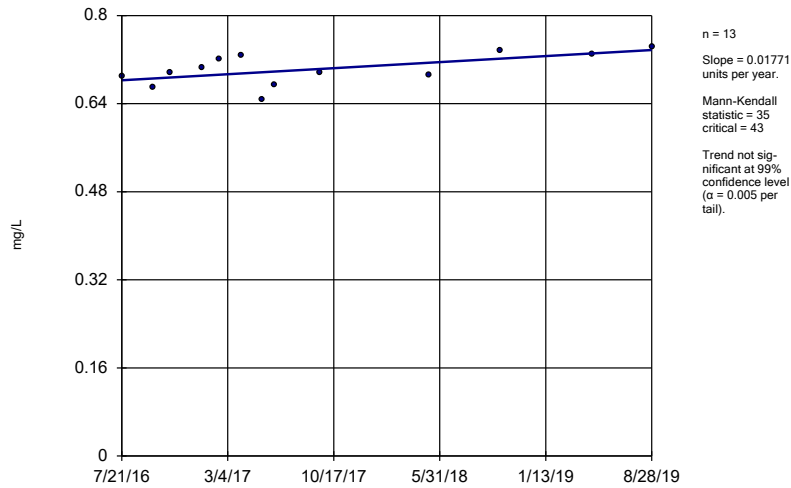
MR-AP-MW-7D



Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

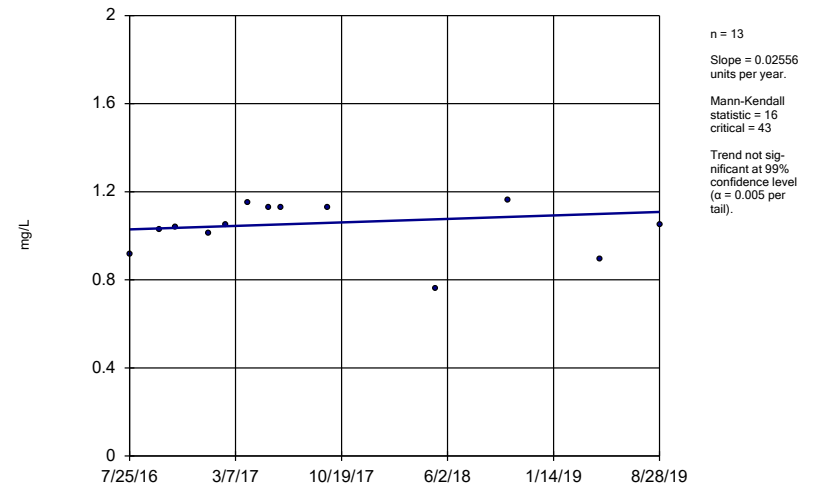
MR-AP-MW-7S



Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

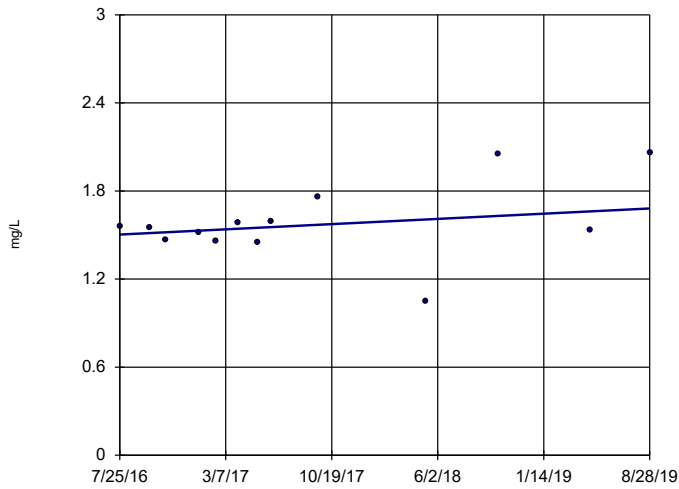
Sen's Slope Estimator

MR-AP-MW-8D



Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

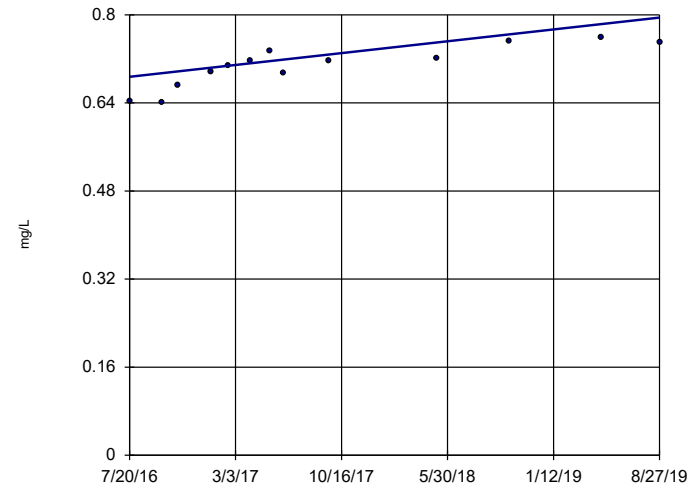
Sen's Slope Estimator MR-AP-MW-8S



n = 13
 Slope = 0.05715 units per year.
 Mann-Kendall statistic = 18
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

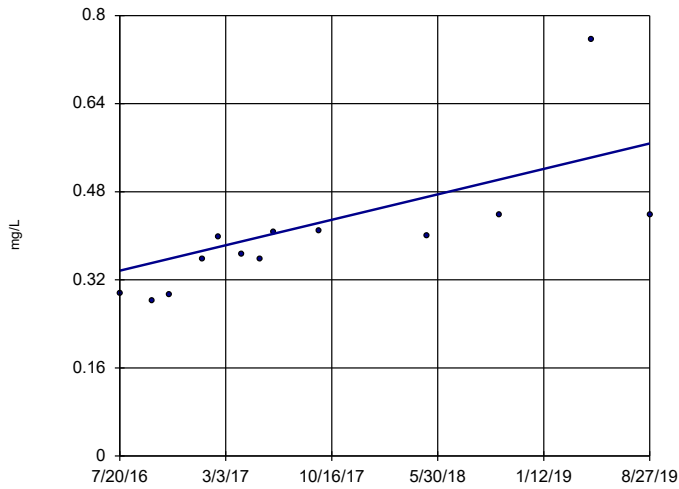
Sen's Slope Estimator MR-AP-MW-9D



n = 13
 Slope = 0.03464 units per year.
 Mann-Kendall statistic = 59
 critical = 43
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

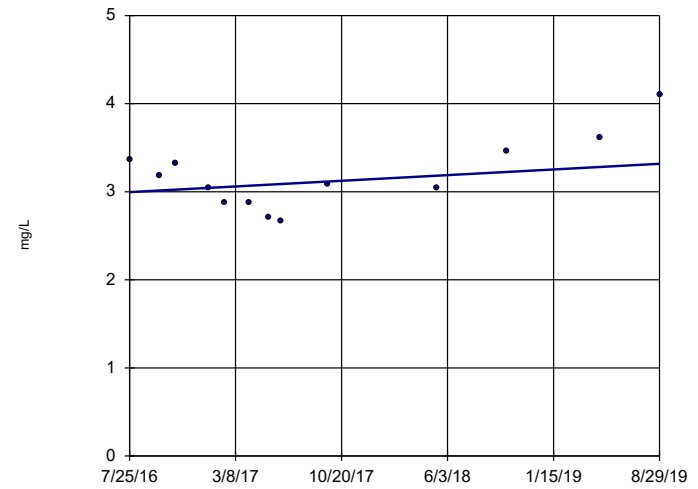
Sen's Slope Estimator MR-AP-MW-9S



n = 13
 Slope = 0.07445 units per year.
 Mann-Kendall statistic = 61
 critical = 43
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator MR-AP-MW-10

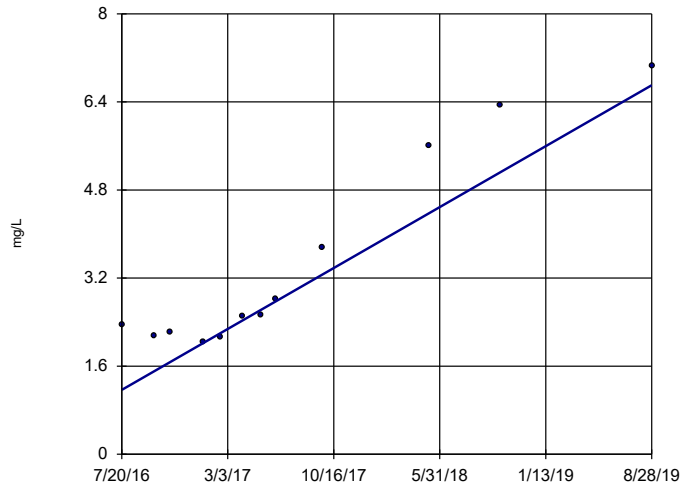


n = 13
 Slope = 0.104 units per year.
 Mann-Kendall statistic = 9
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

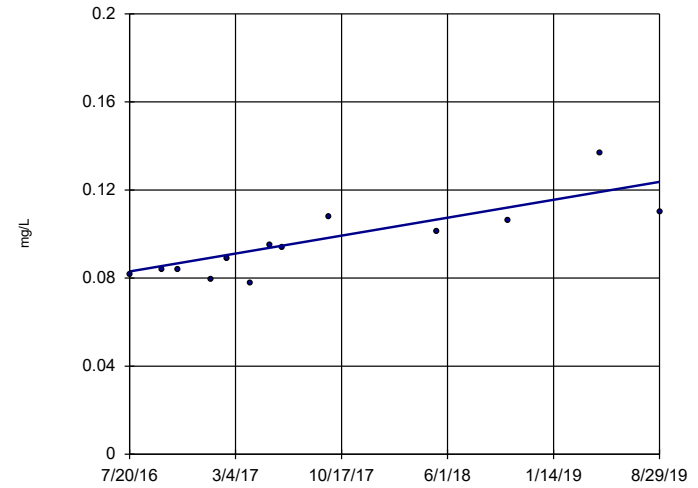


n = 12
 Slope = 1.782
 units per year.
 Mann-Kendall
 statistic = 50
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-13S

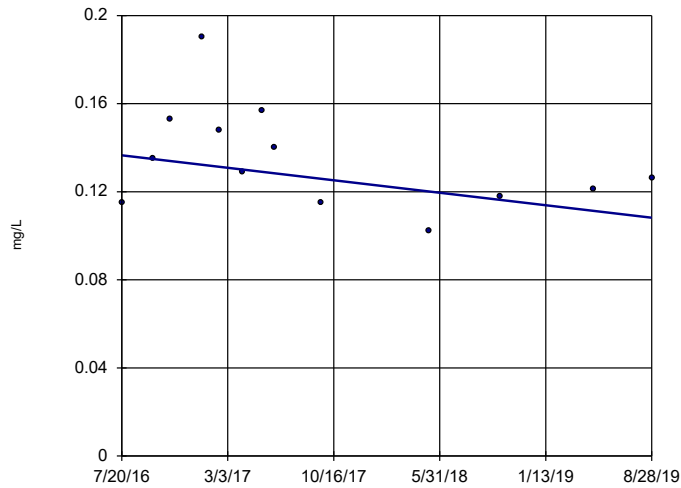


n = 13
 Slope = 0.01307
 units per year.
 Mann-Kendall
 statistic = 53
 critical = 43
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-14

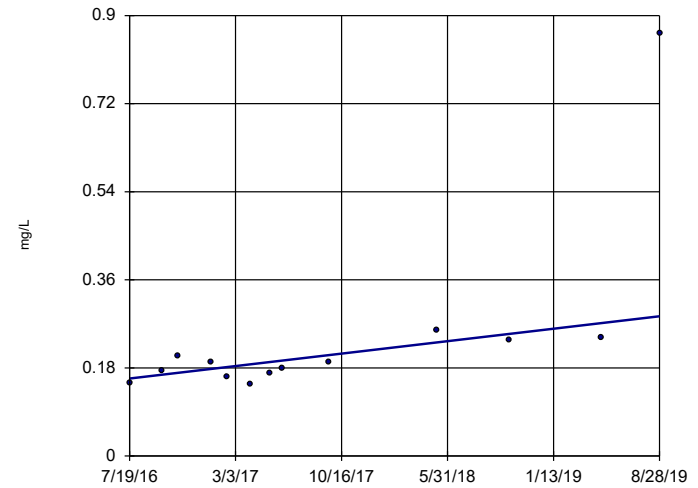


n = 13
 Slope = -0.00912
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-15

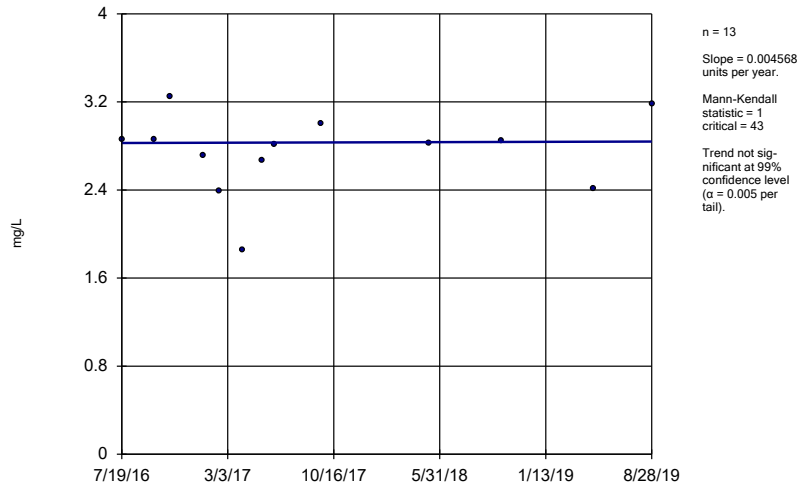


n = 13
 Slope = 0.04088
 units per year.
 Mann-Kendall
 statistic = 43
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

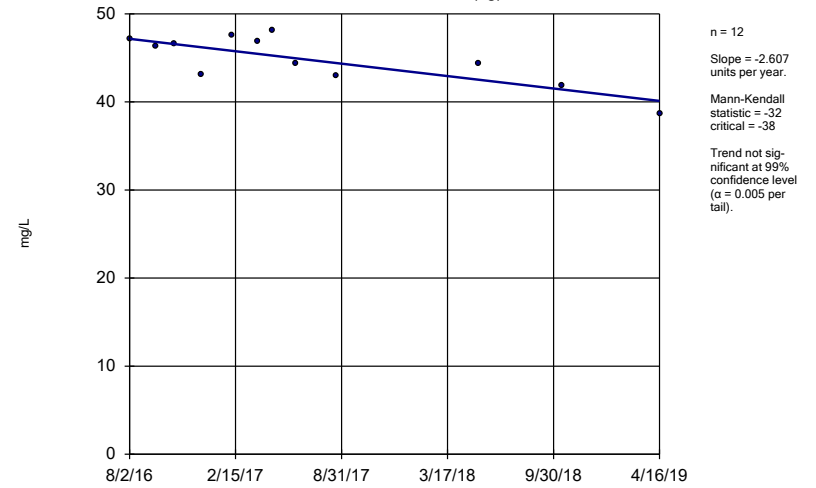
MR-AP-MW-16



Constituent: Boron Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

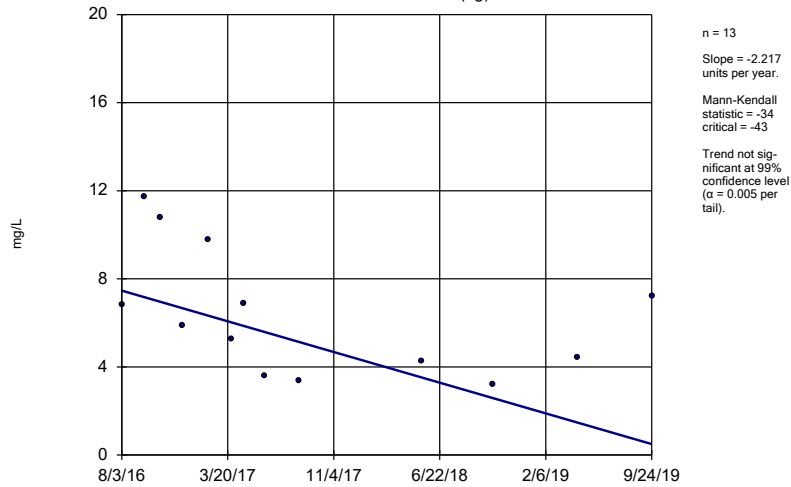
GS-AP-MW-13 (bg)



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

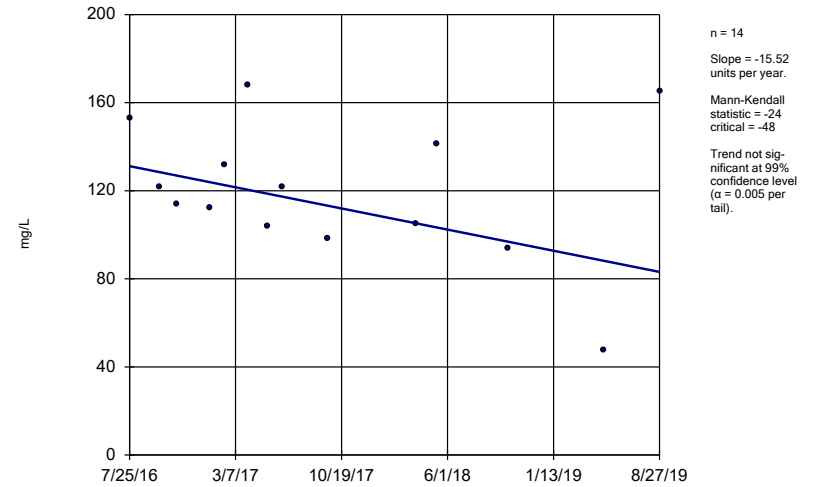
GS-AP-MW-8 (bg)



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

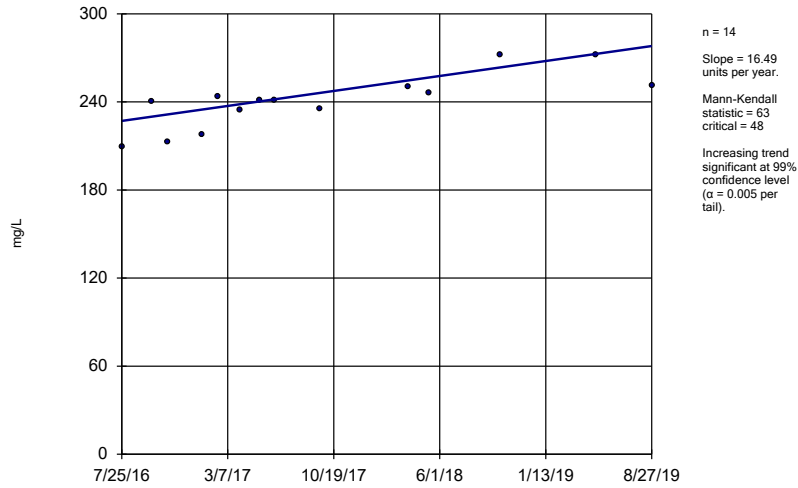
MR-AP-MW-1



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

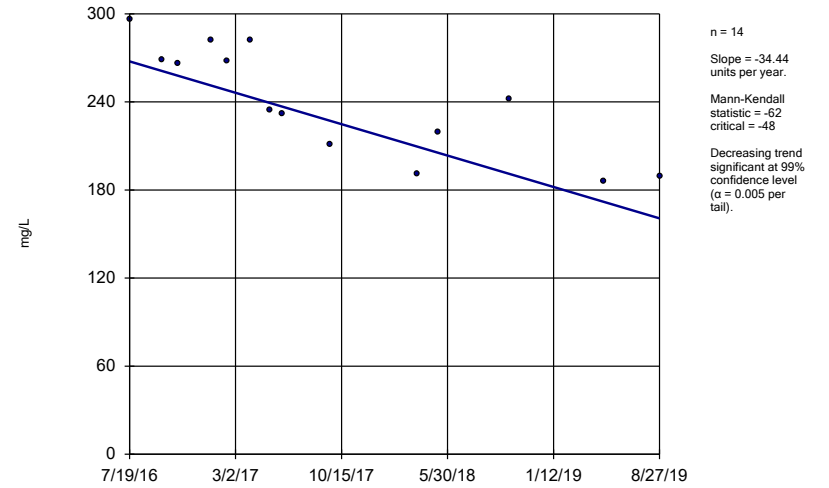
MR-AP-MW-2



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

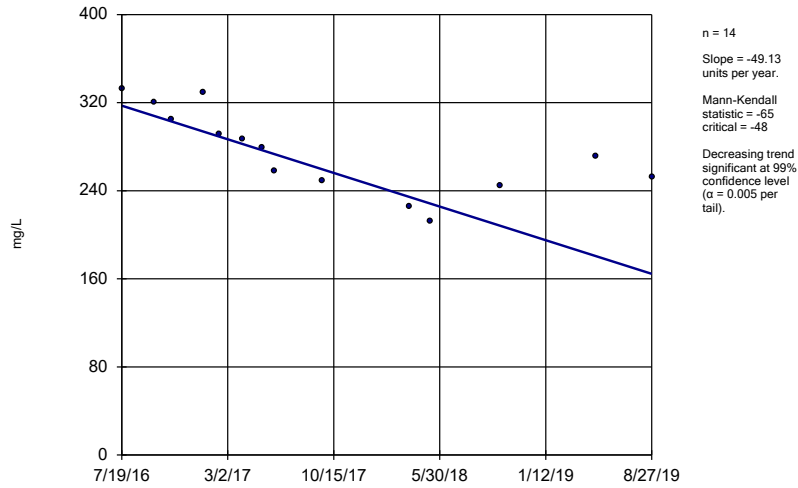
MR-AP-MW-3D



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

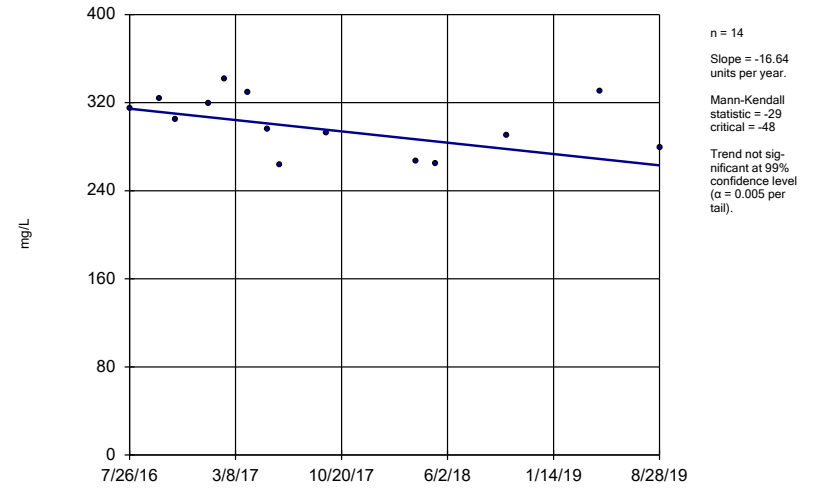
MR-AP-MW-4



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

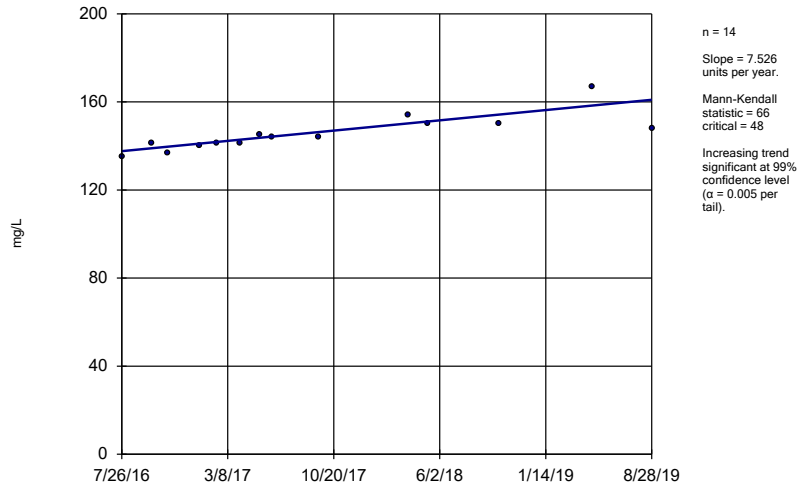
MR-AP-MW-5



Constituent: Calcium Analysis Run 1/21/2020 2:19 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

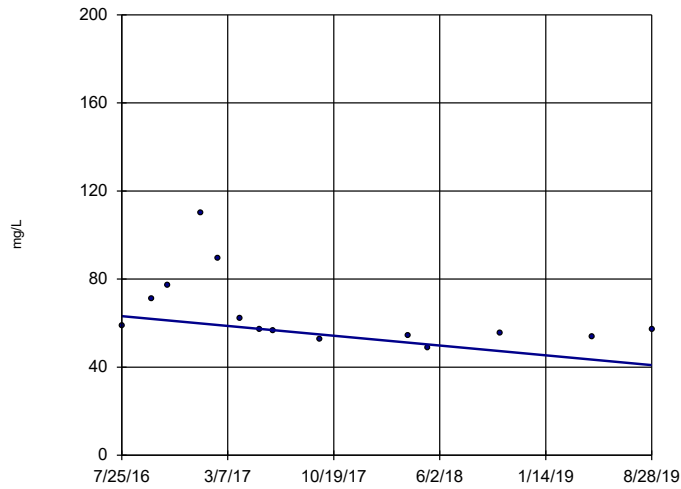
Sen's Slope Estimator

MR-AP-MW-6



Sen's Slope Estimator

MR-AP-MW-8S

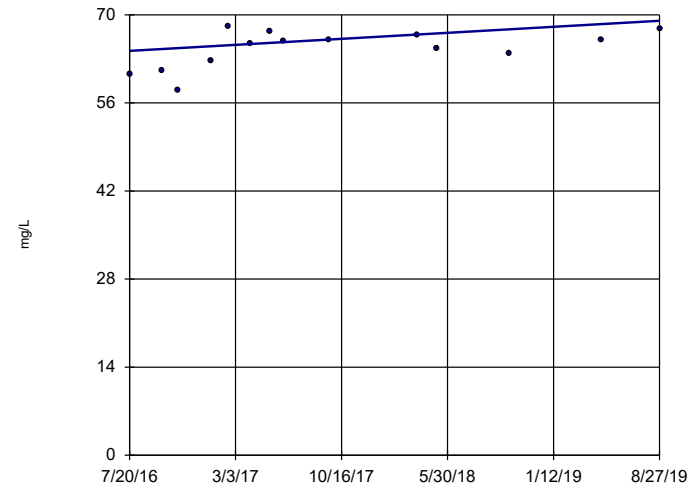


n = 14
 Slope = -7.194 units per year.
 Mann-Kendall statistic = -47
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-9D

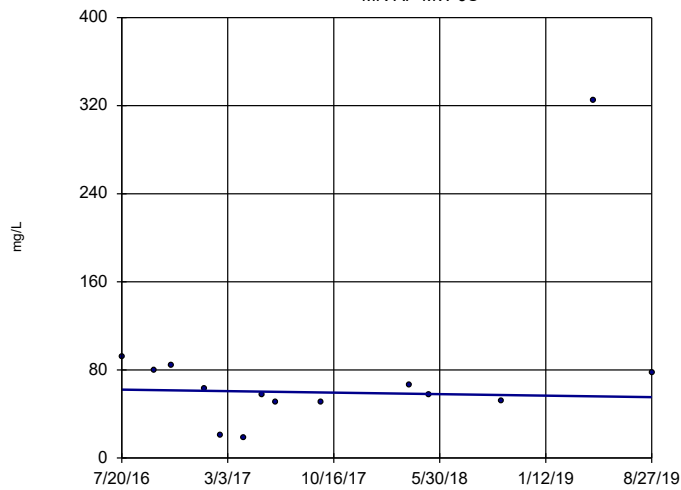


n = 14
 Slope = 1.537 units per year.
 Mann-Kendall statistic = 36
 critical = 48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-9S

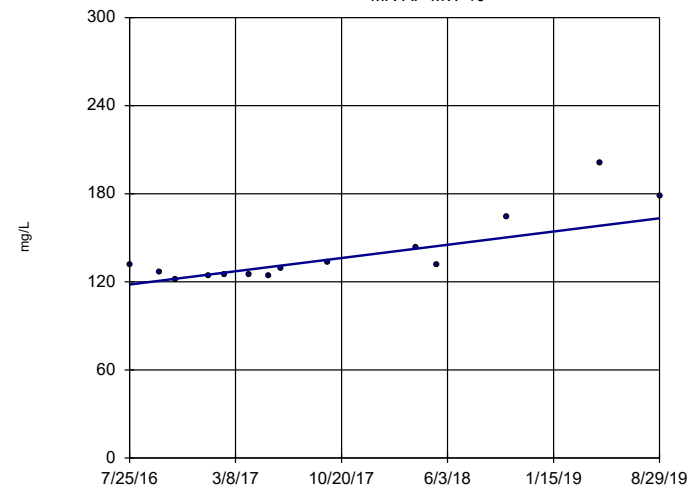


n = 14
 Slope = -2.201 units per year.
 Mann-Kendall statistic = -4
 critical = -48
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

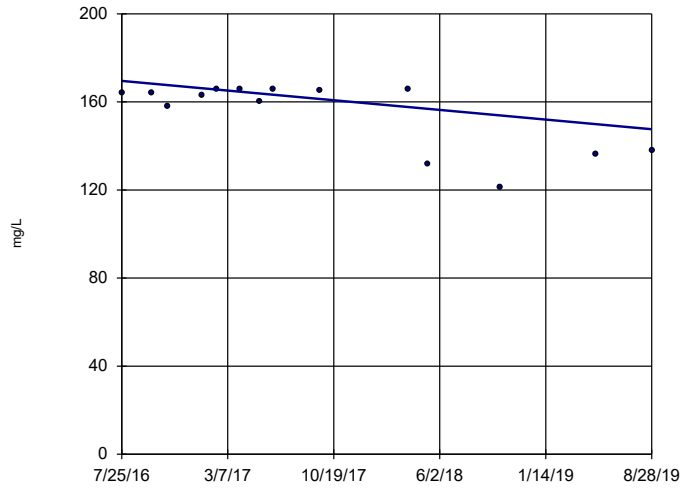


n = 14
 Slope = 14.6 units per year.
 Mann-Kendall statistic = 54
 critical = 48
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

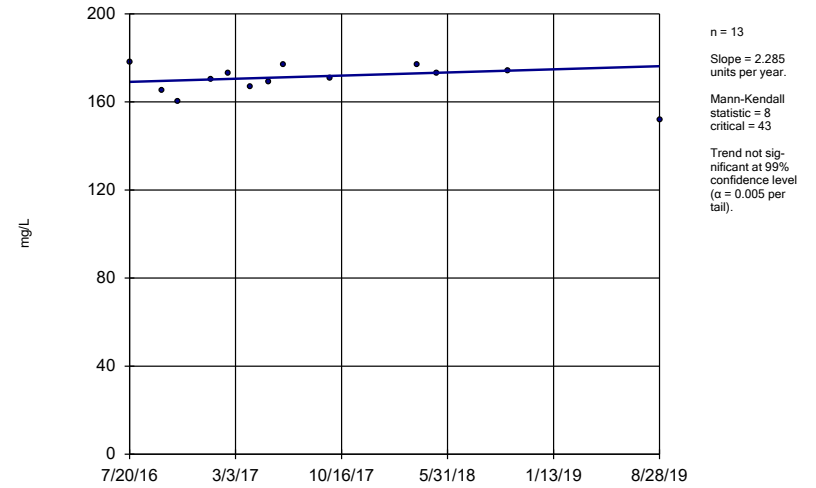
MR-AP-MW-11



Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

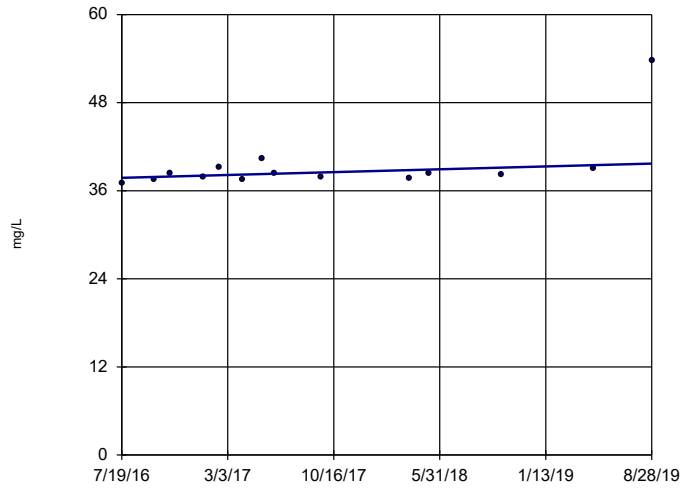
MR-AP-MW-12



Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

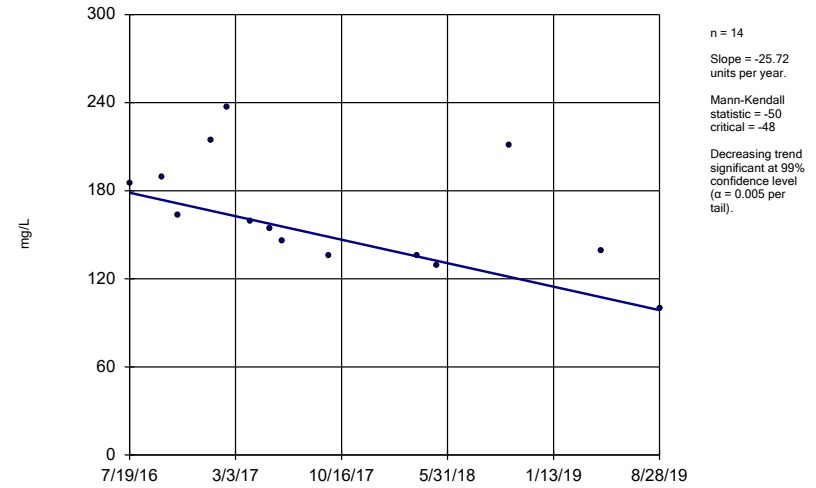
MR-AP-MW-15



Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

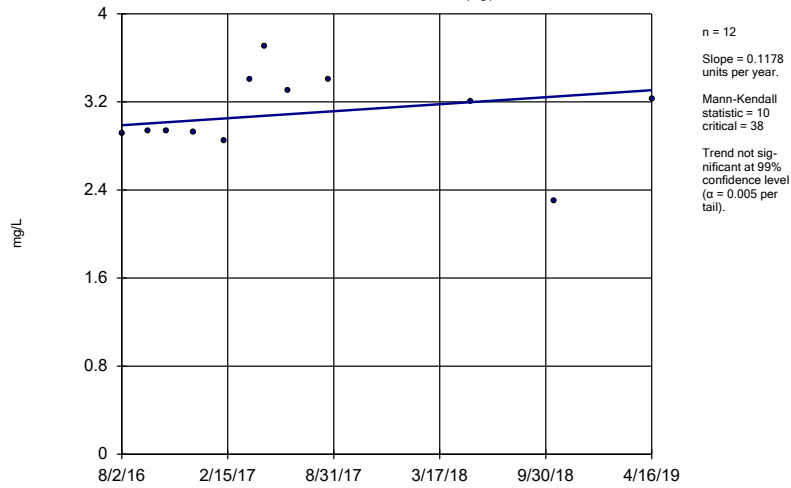
Sen's Slope Estimator

MR-AP-MW-16



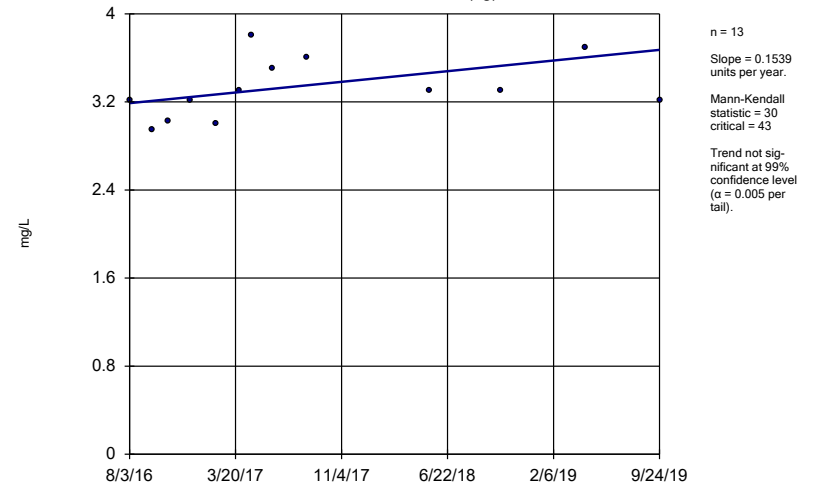
Constituent: Calcium Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator GS-AP-MW-13 (bg)



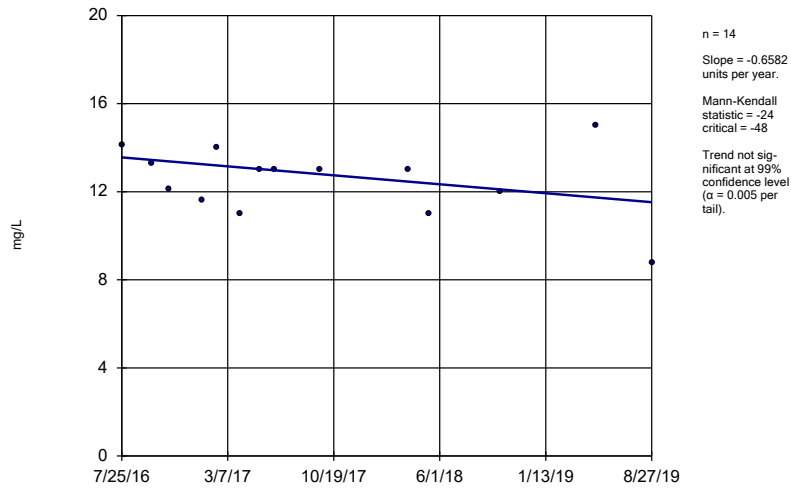
Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator GS-AP-MW-8 (bg)



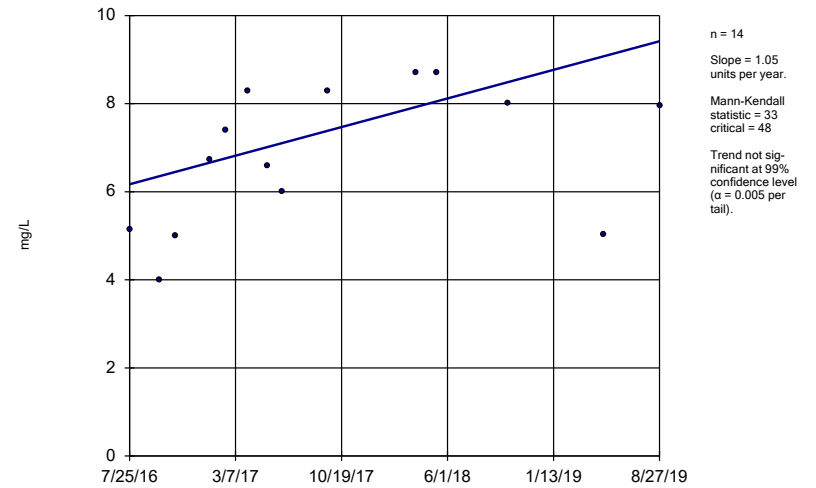
Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator MR-AP-MW-1



Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

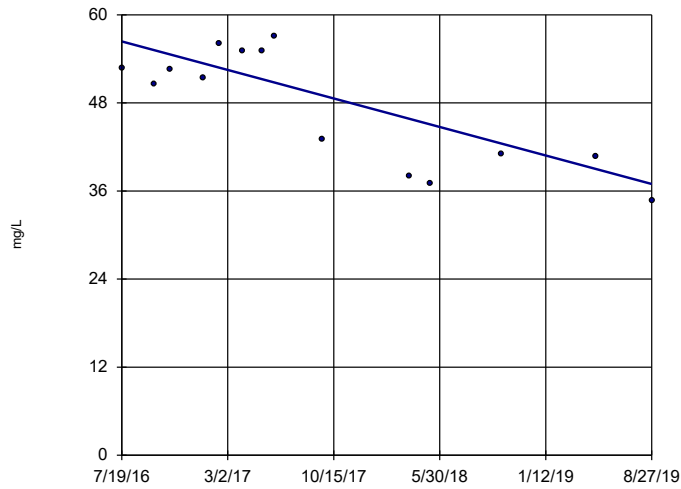
Sen's Slope Estimator MR-AP-MW-2



Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

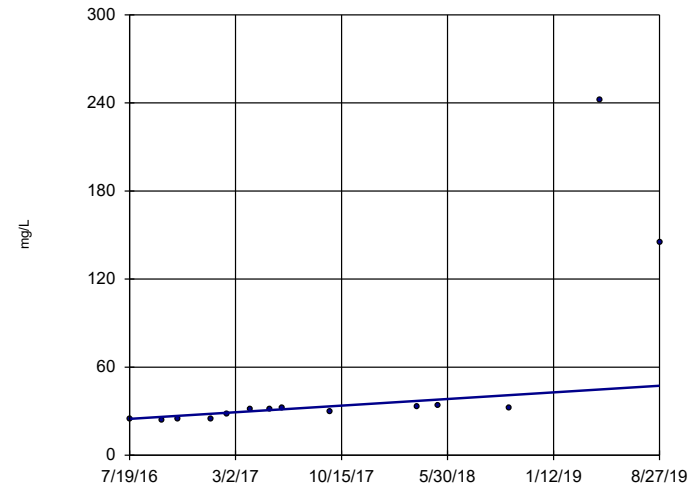


n = 14
 Slope = -6.257
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

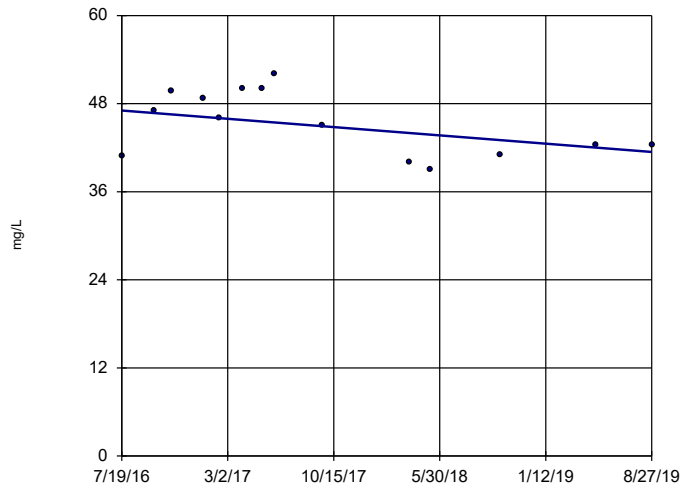


n = 14
 Slope = 7.285
 units per year.
 Mann-Kendall
 statistic = 69
 critical = 48
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

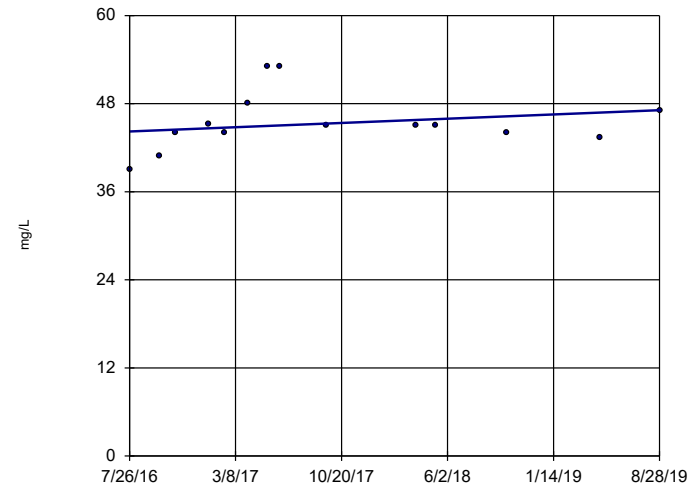


n = 14
 Slope = -1.817
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

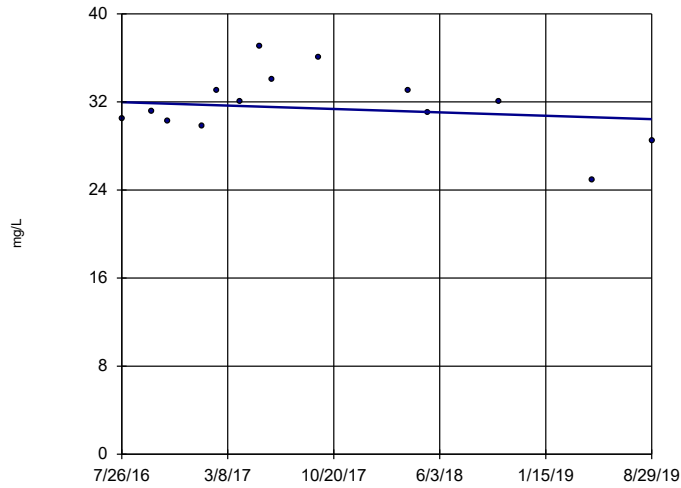


n = 14
 Slope = 0.9349
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

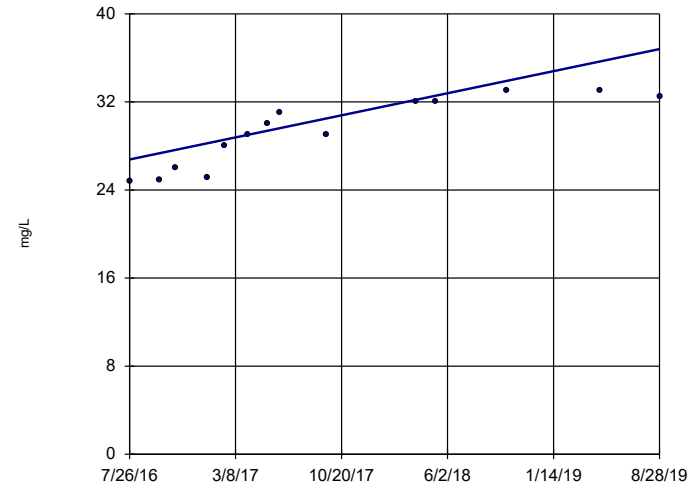


n = 14
 Slope = -0.4948
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

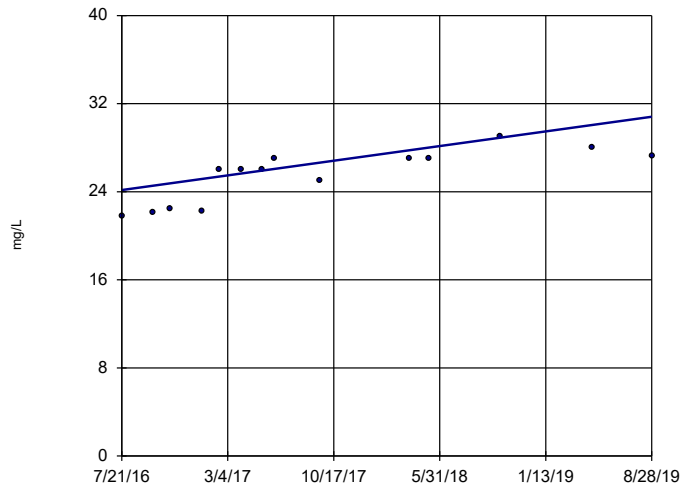


n = 14
 Slope = 3.244
 units per year.
 Mann-Kendall
 statistic = 78
 critical = 48
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-7D

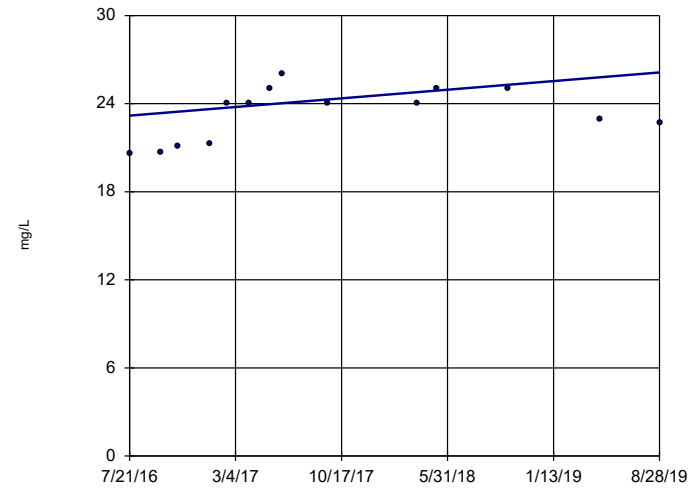


n = 14
 Slope = 2.143
 units per year.
 Mann-Kendall
 statistic = 69
 critical = 48
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-7S

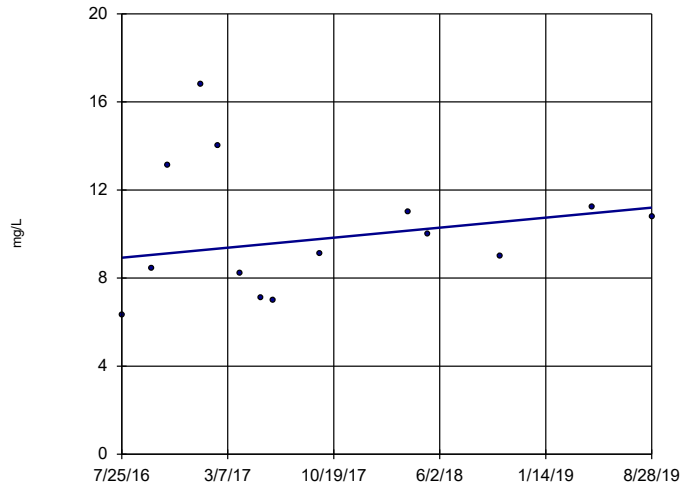


n = 14
 Slope = 0.9456
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 1/21/2020 2:20 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

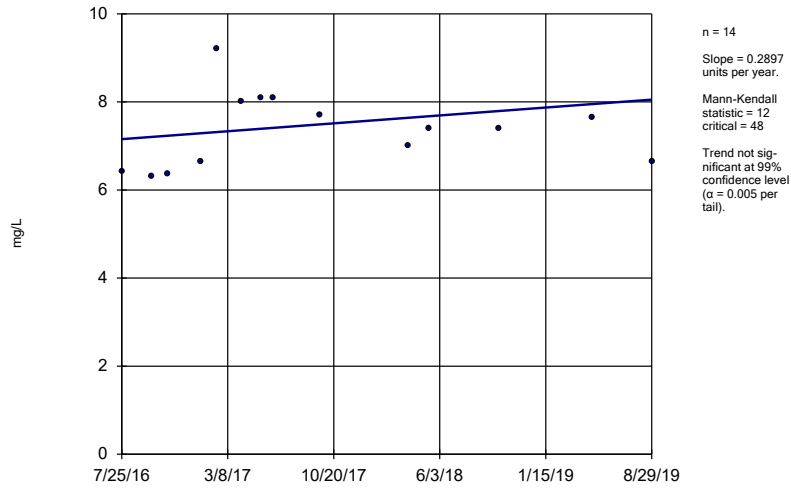
Sen's Slope Estimator

MR-AP-MW-8D



Sen's Slope Estimator

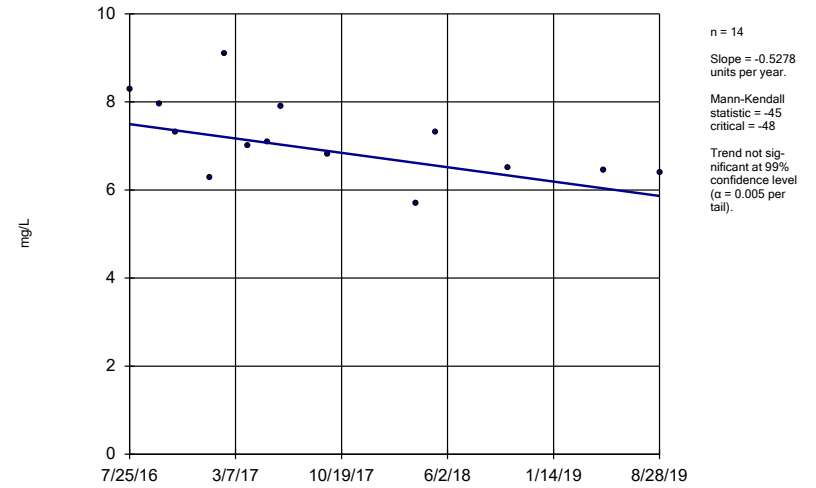
MR-AP-MW-10



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

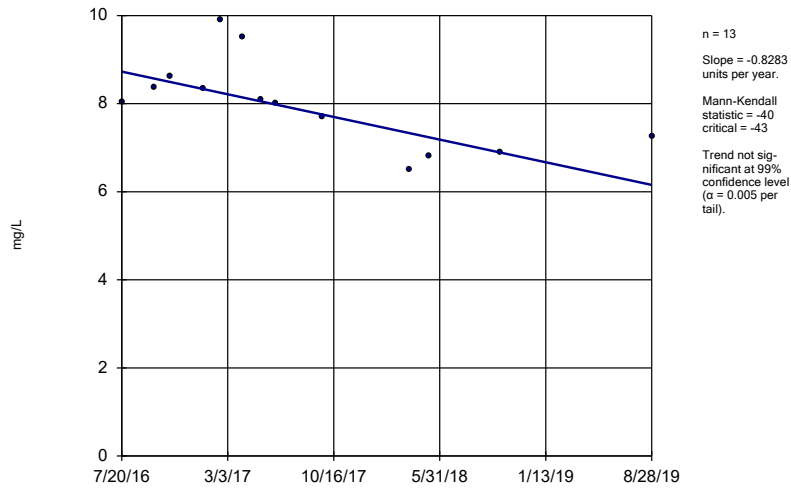
MR-AP-MW-11



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

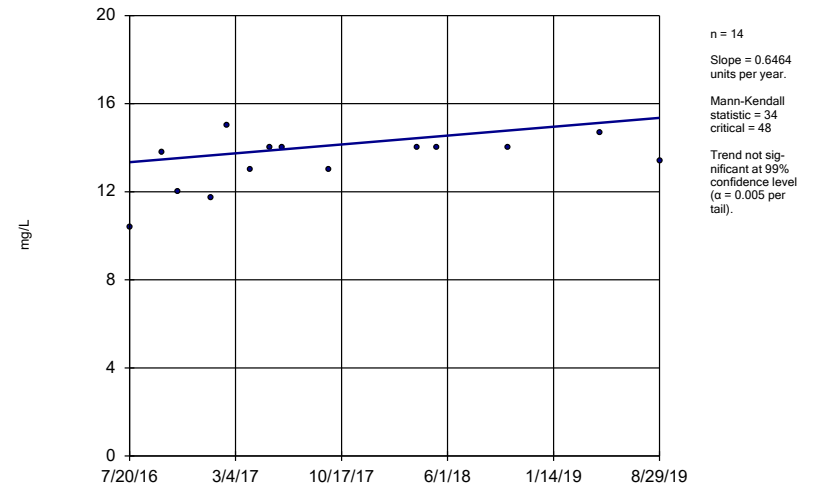
MR-AP-MW-12



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

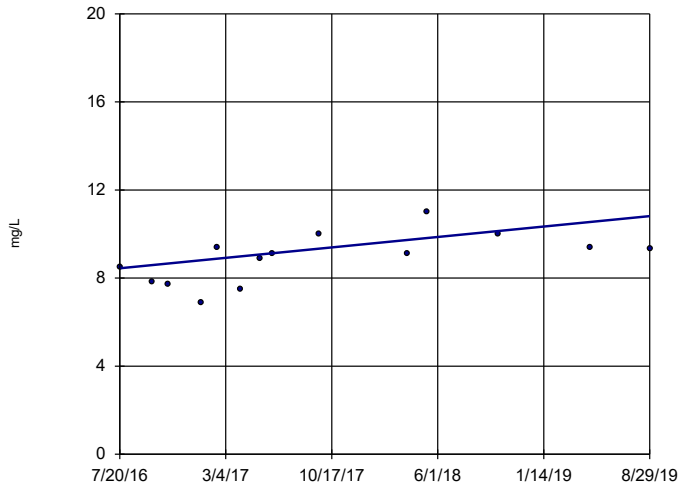
MR-AP-MW-13D



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

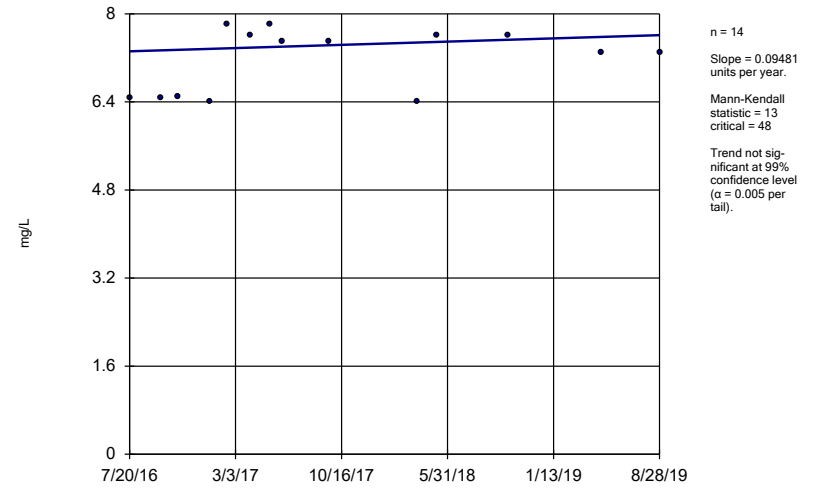
MR-AP-MW-13S



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

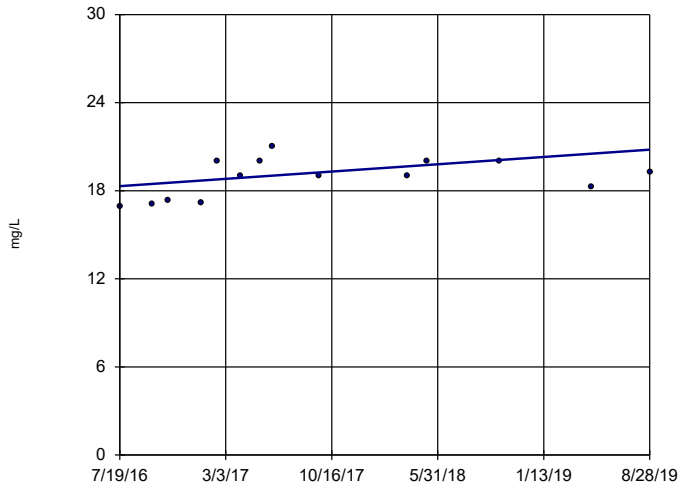
MR-AP-MW-14



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

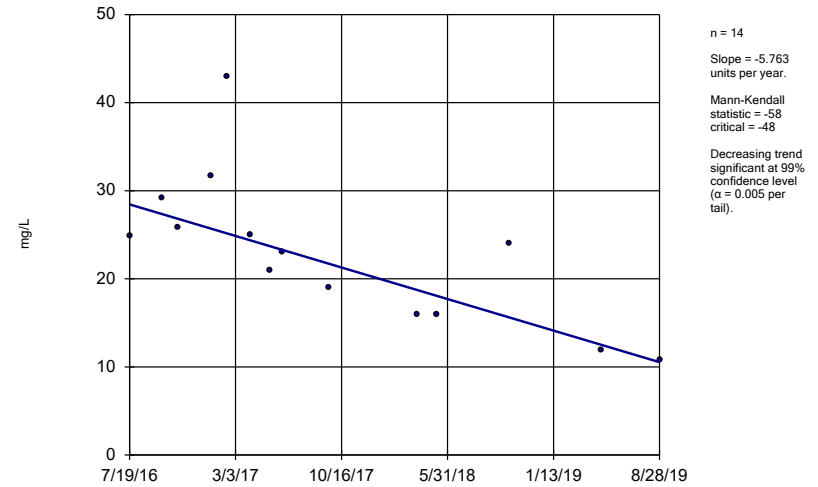
MR-AP-MW-15



Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

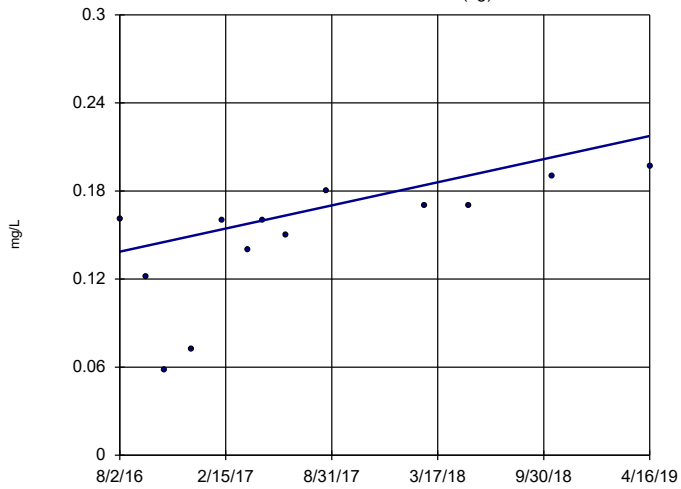
Sen's Slope Estimator

MR-AP-MW-16



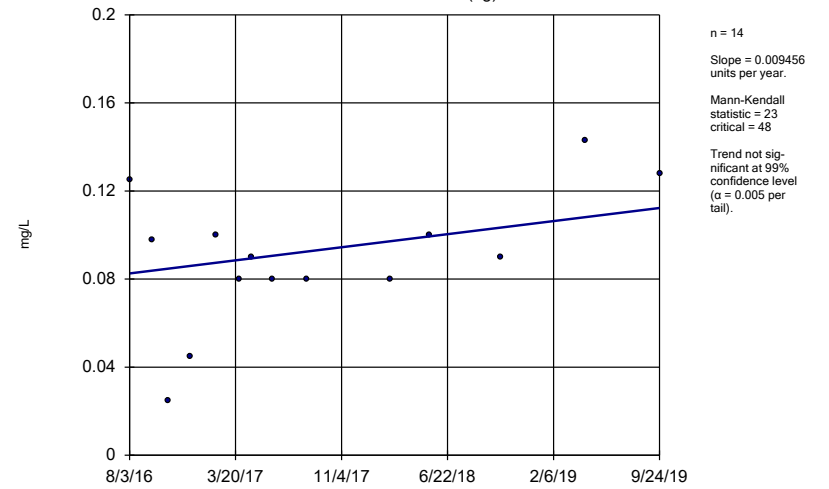
Constituent: Chloride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator GS-AP-MW-13 (bg)



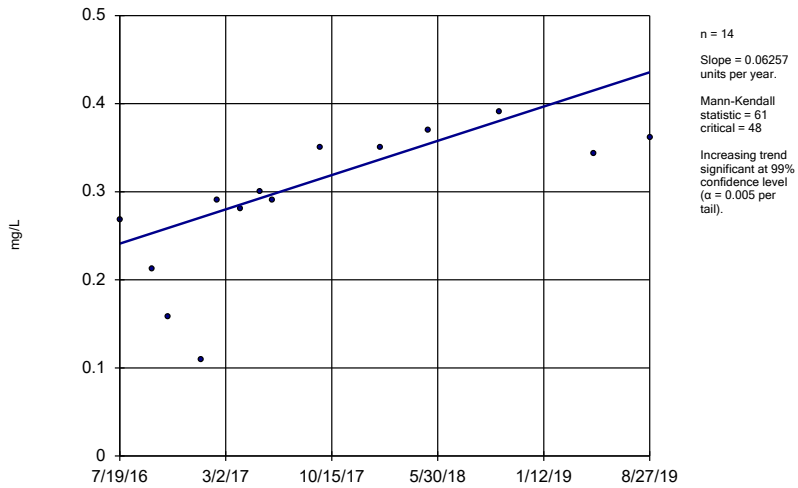
Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator GS-AP-MW-8 (bg)



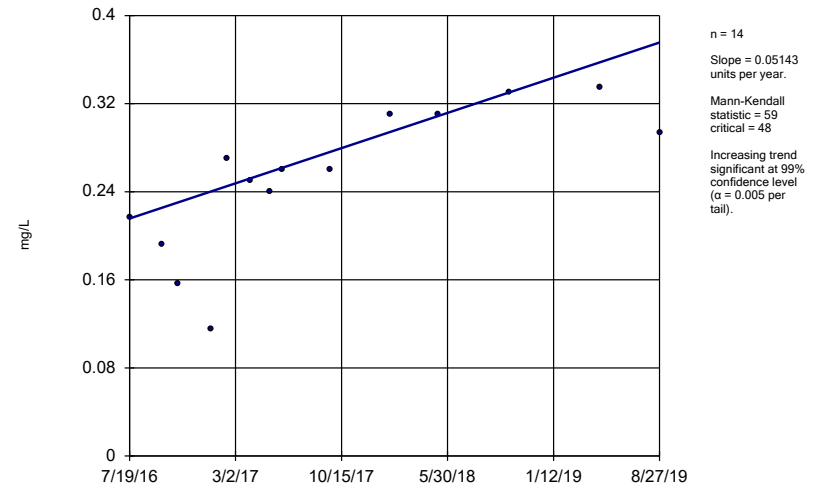
Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator MR-AP-MW-3D



Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

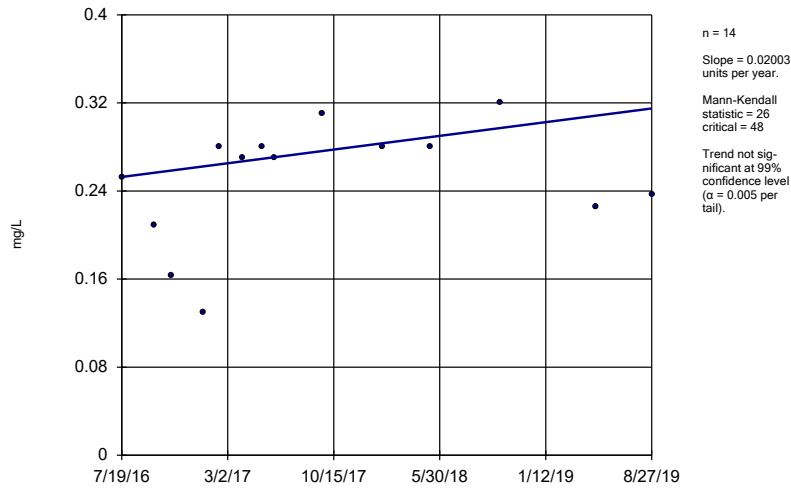
Sen's Slope Estimator MR-AP-MW-3S



Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

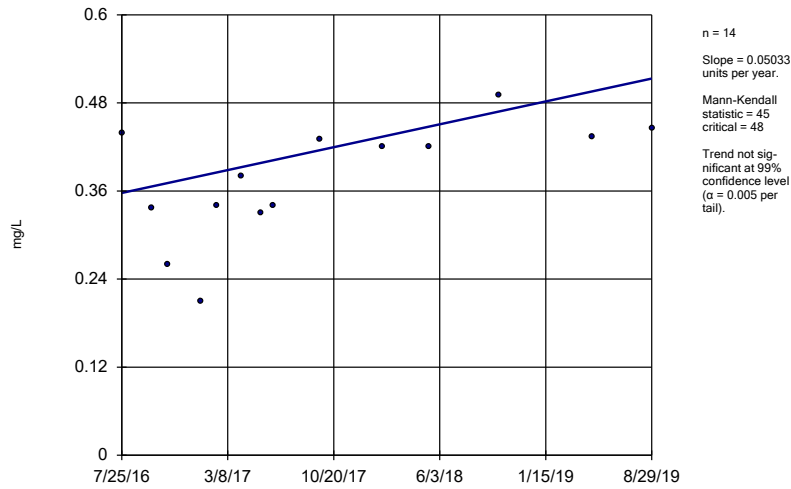
Sen's Slope Estimator

MR-AP-MW-4



Sen's Slope Estimator

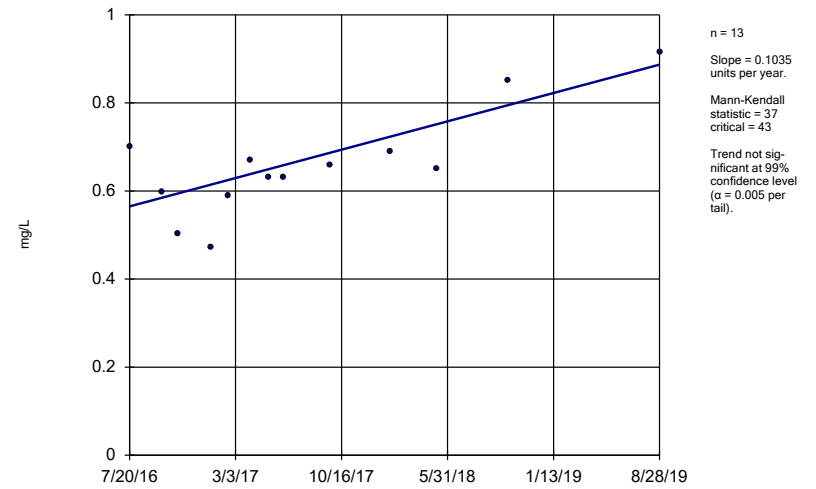
MR-AP-MW-10



Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

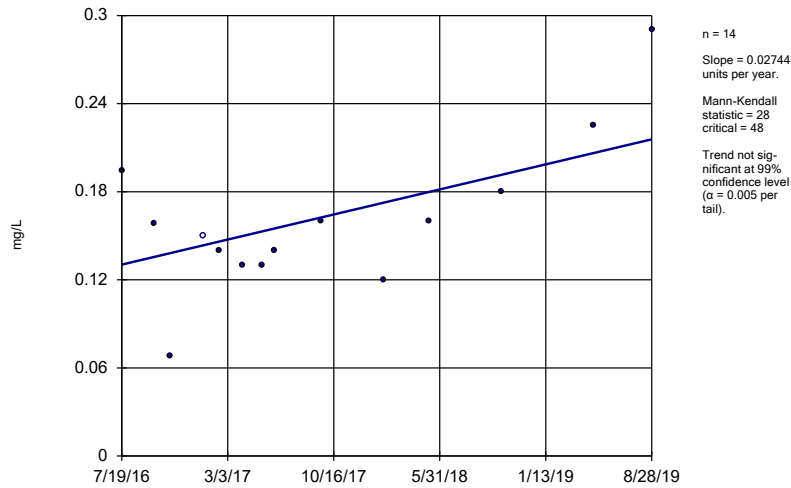
MR-AP-MW-12



Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

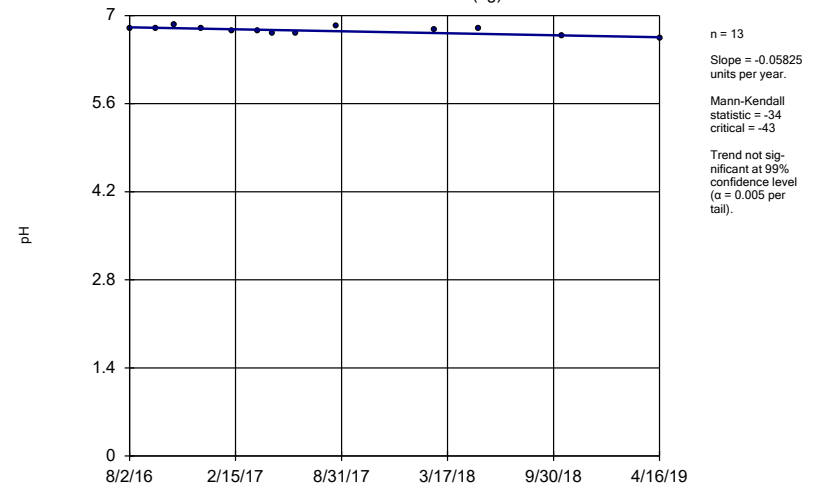
MR-AP-MW-16



Constituent: Fluoride Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

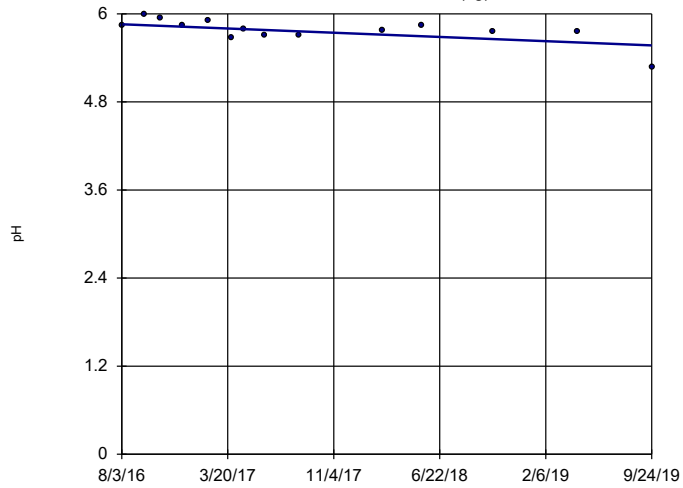
GS-AP-MW-13 (bg)



Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

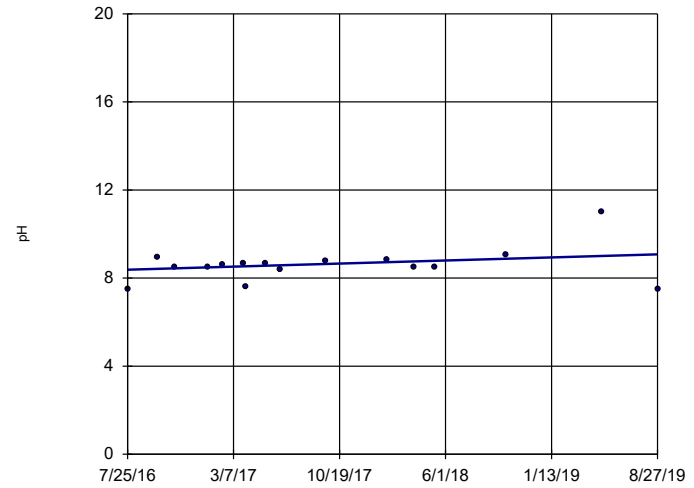


n = 14
 Slope = -0.0911
 units per year.
 Mann-Kendall
 statistic = -44
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-1

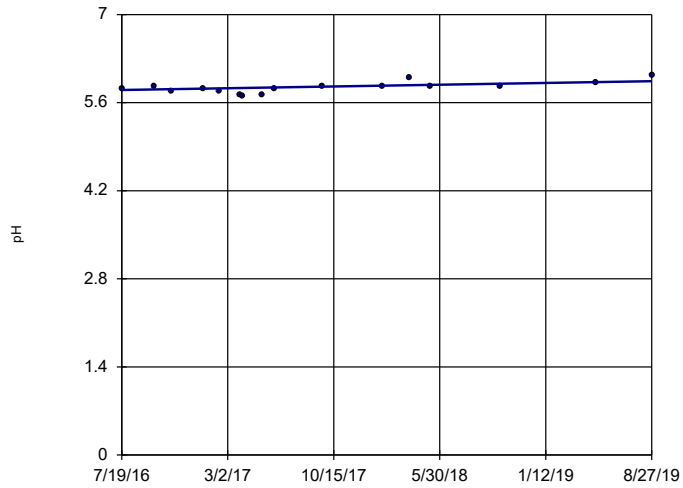


n = 16
 Slope = 0.2255
 units per year.
 Mann-Kendall
 statistic = 19
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

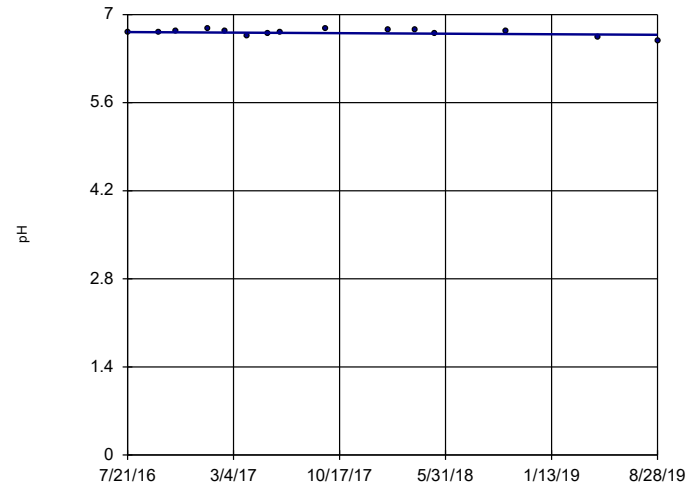


n = 16
 Slope = 0.04526
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-7D

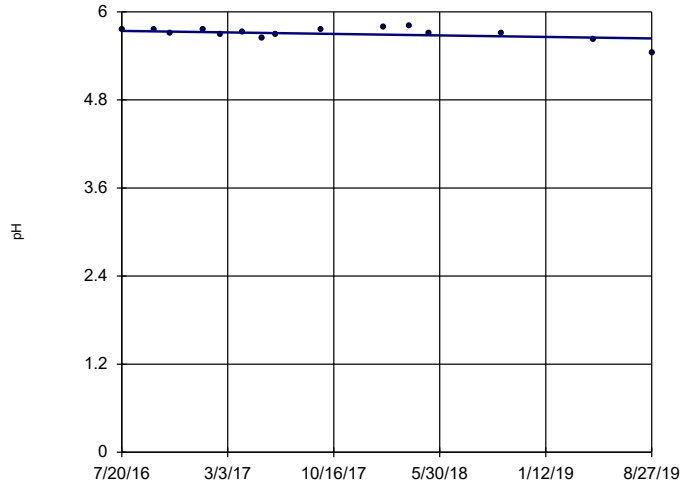


n = 15
 Slope = -0.01443
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

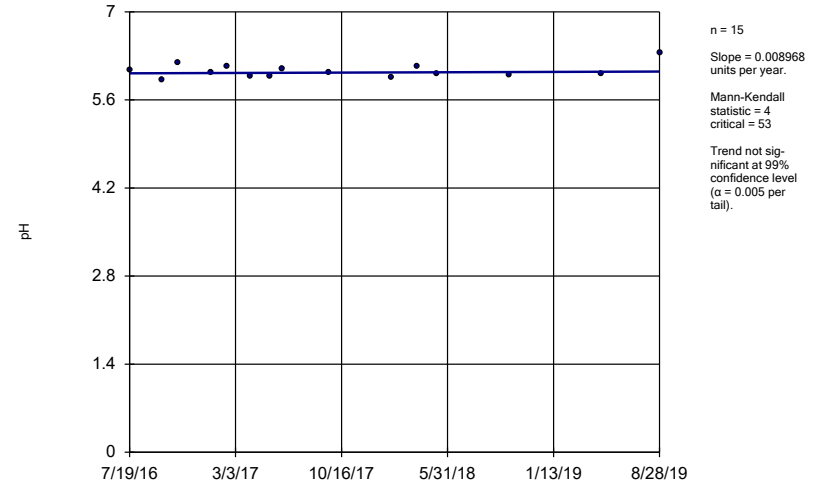
MR-AP-MW-9D



Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

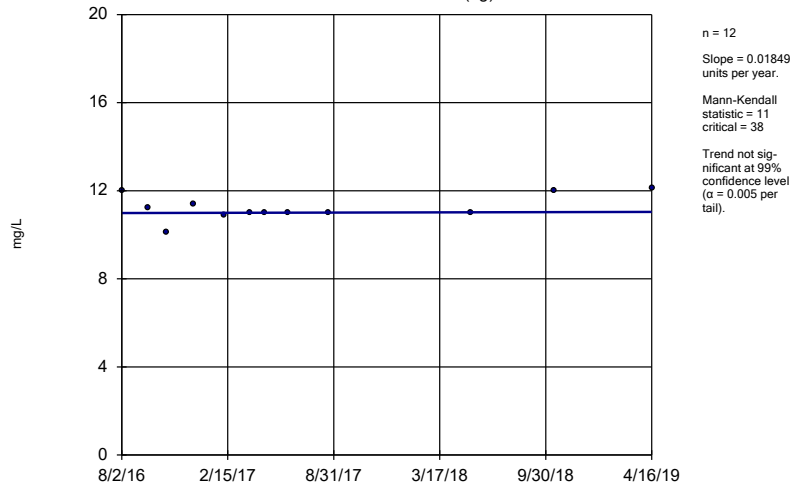
MR-AP-MW-16



Constituent: pH Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

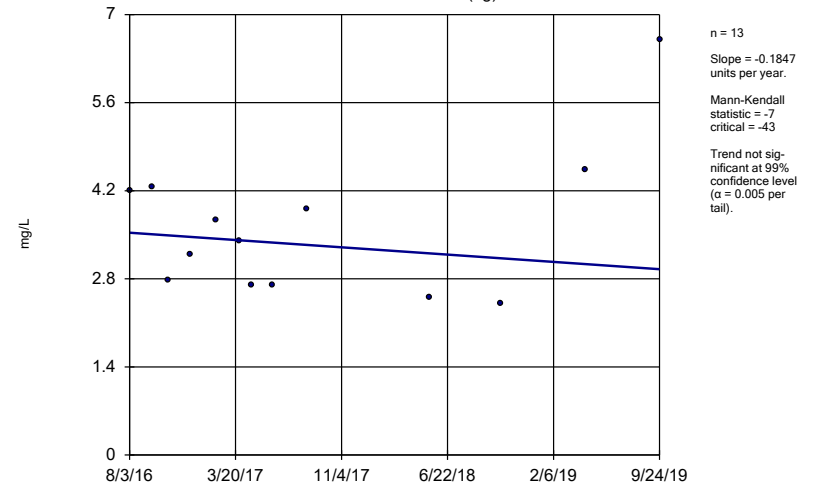
GS-AP-MW-13 (bg)



Constituent: Sulfate Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

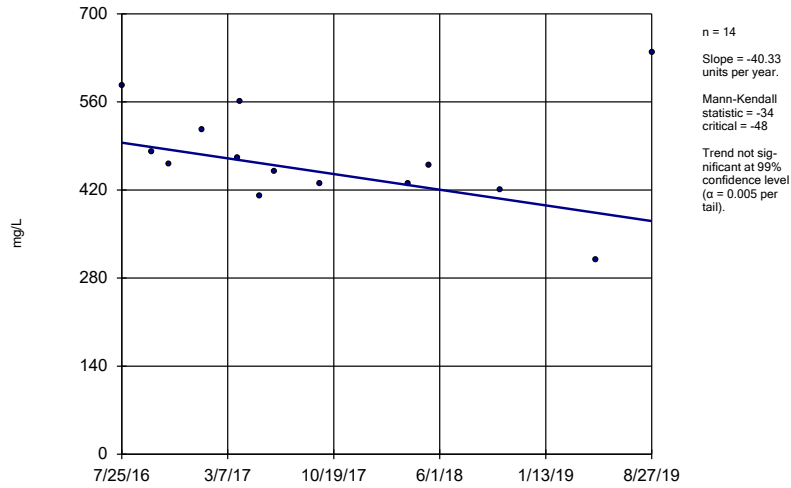
GS-AP-MW-8 (bg)



Constituent: Sulfate Analysis Run 1/21/2020 2:21 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

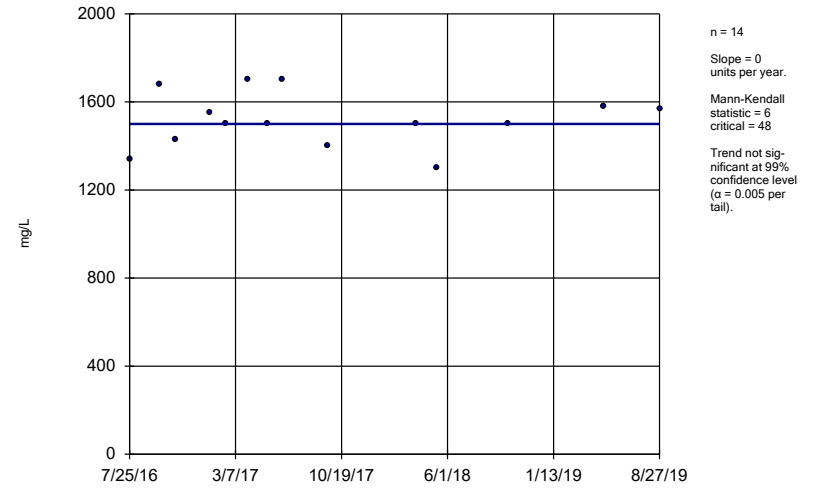
MR-AP-MW-1



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

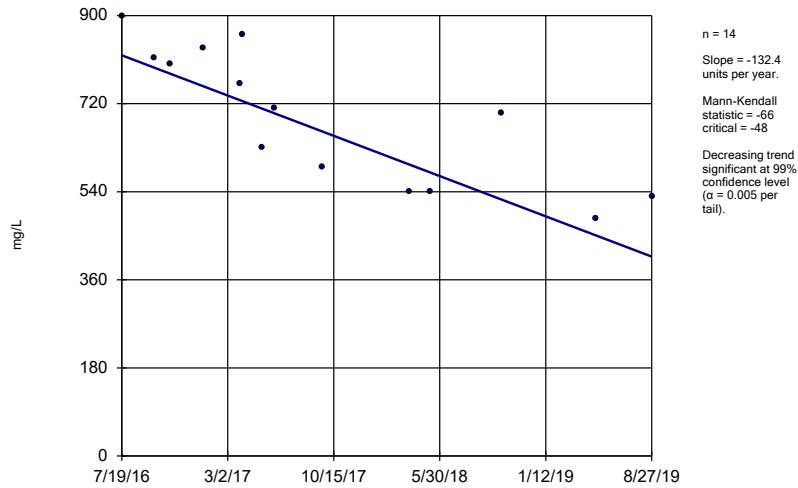
MR-AP-MW-2



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

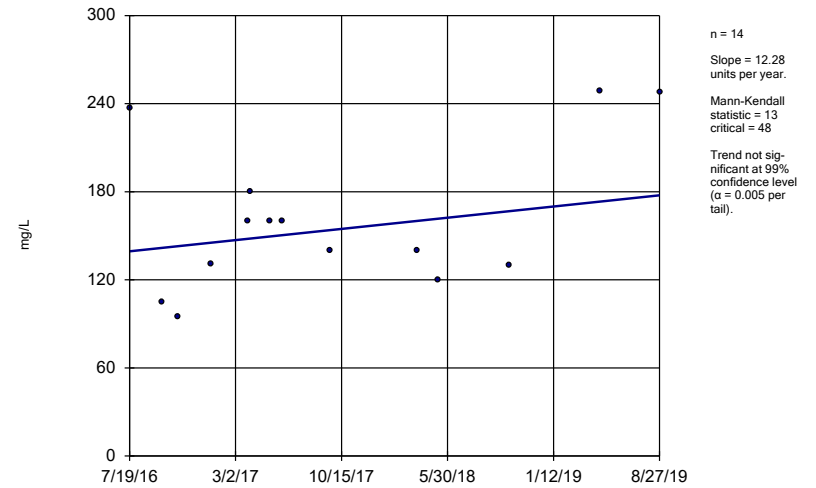
MR-AP-MW-3D



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

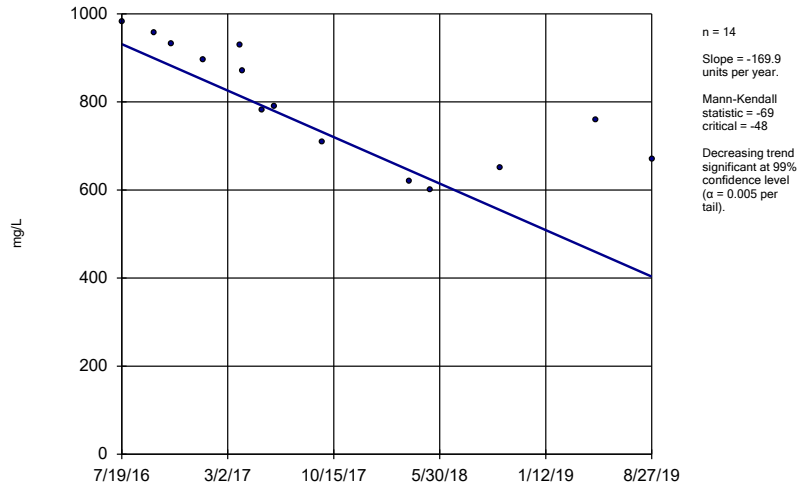
MR-AP-MW-3S



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

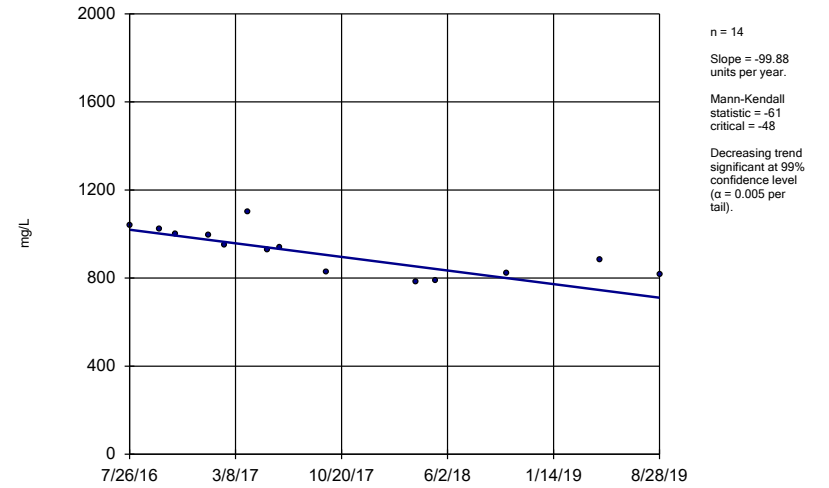
MR-AP-MW-4



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

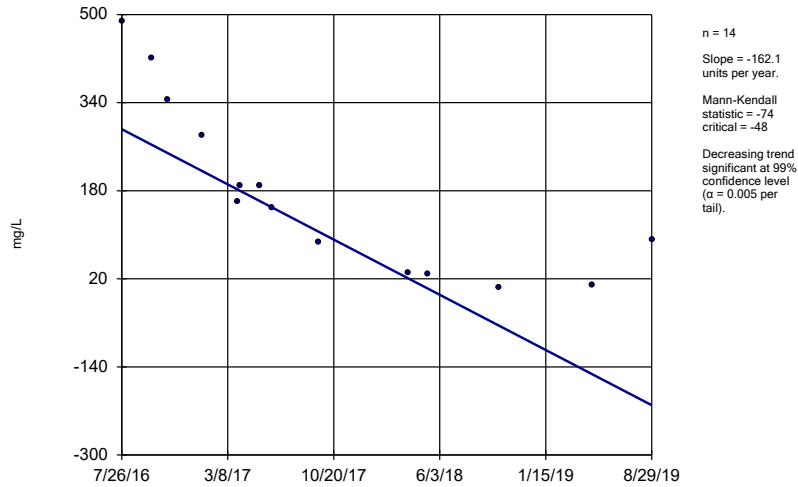
MR-AP-MW-5



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

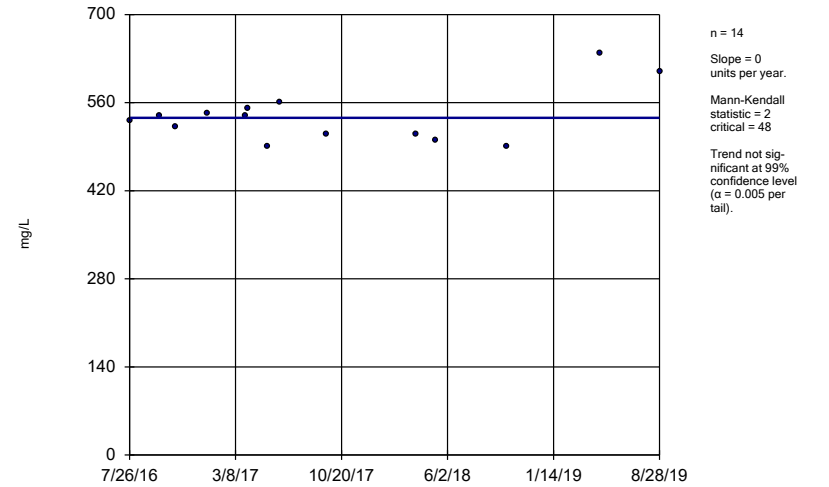
MR-AP-PZ-5



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

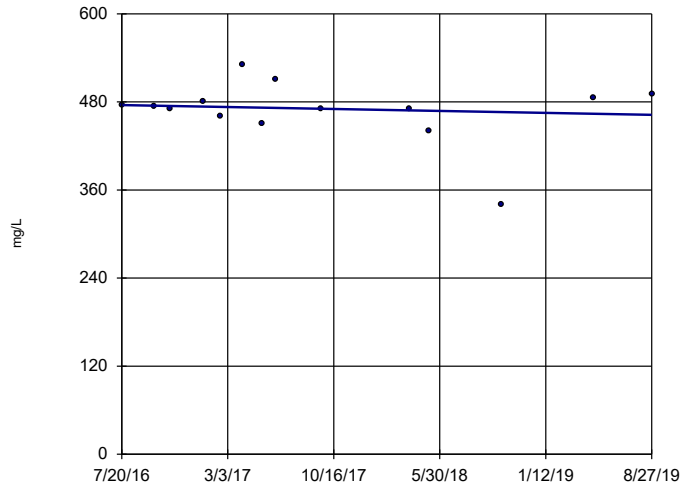
MR-AP-MW-6



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

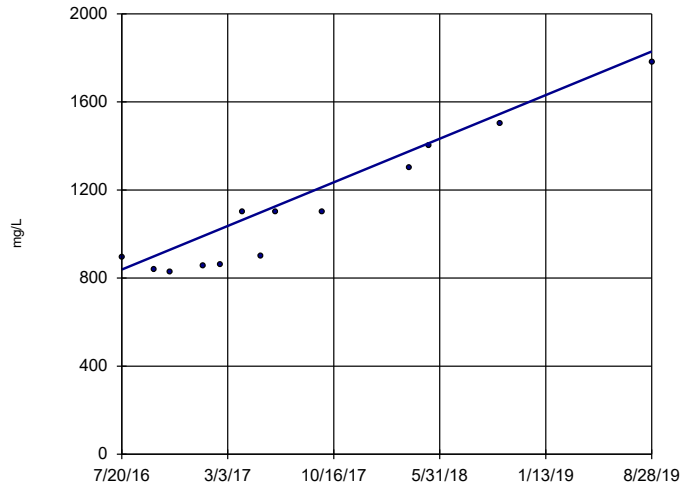
Sen's Slope Estimator

MR-AP-MW-9D



Sen's Slope Estimator

MR-AP-MW-12

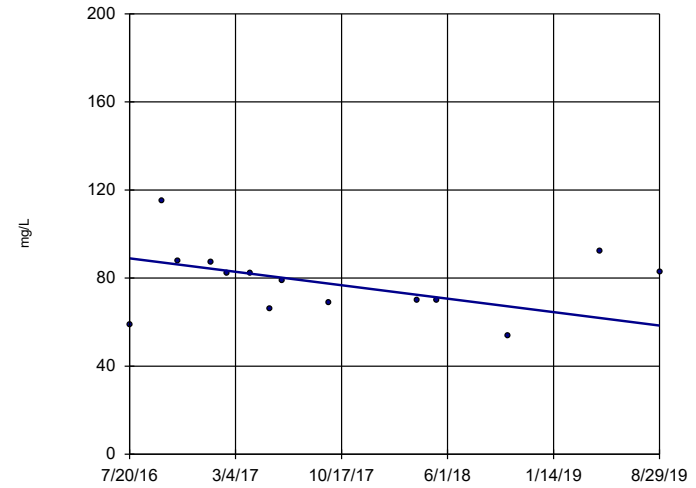


n = 13
 Slope = 318.6
 units per year.
 Mann-Kendall
 statistic = 63
 critical = 43
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-13D

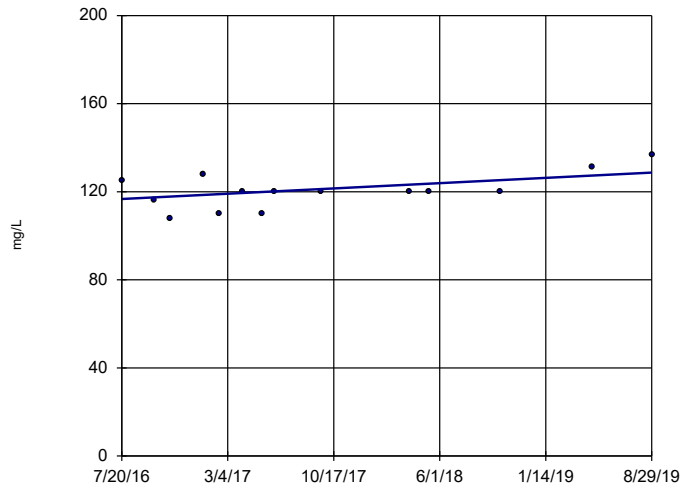


n = 14
 Slope = -9.799
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-13S

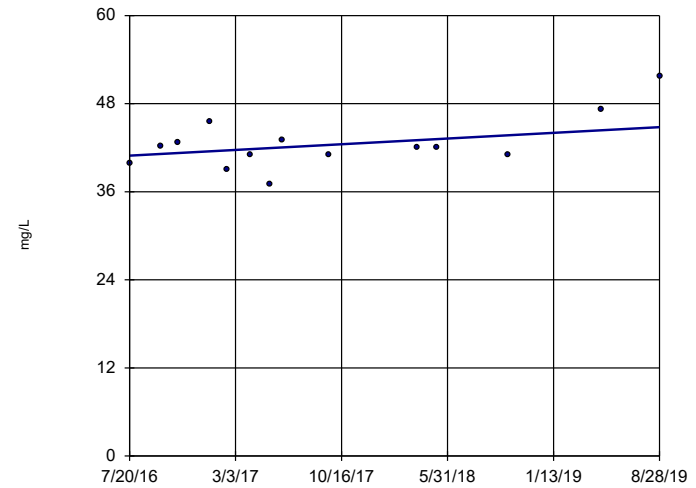


n = 14
 Slope = 3.859
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-14

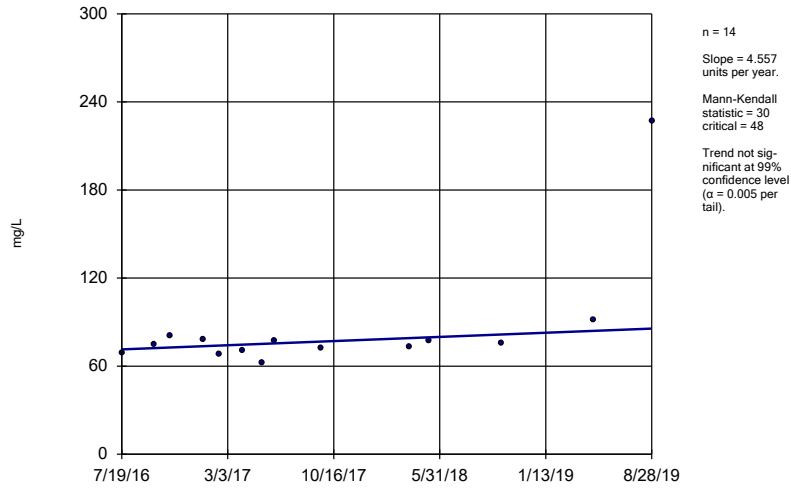


n = 14
 Slope = 1.244
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

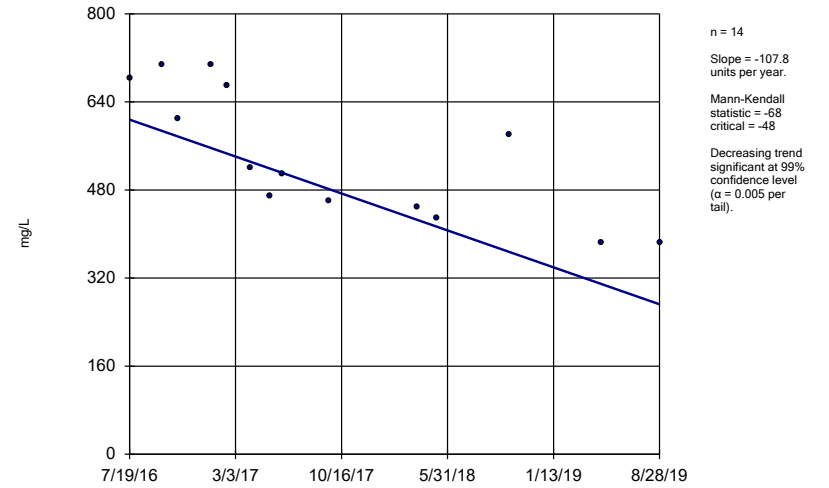
MR-AP-MW-15



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

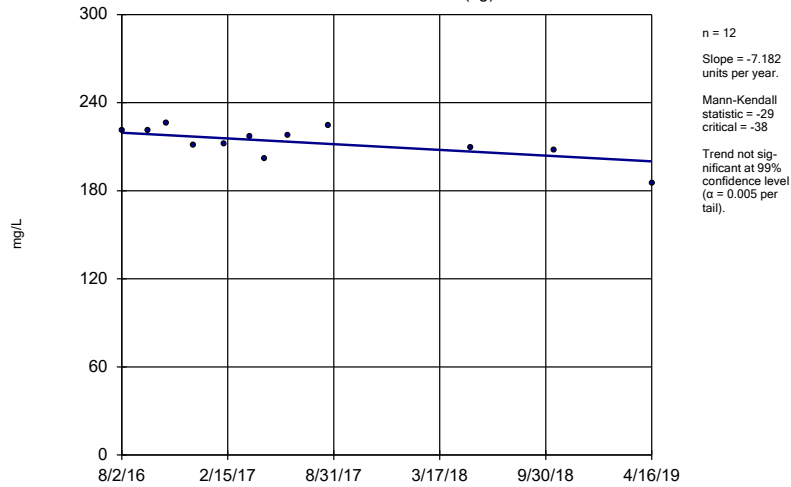
MR-AP-MW-16



Constituent: Sulfate Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

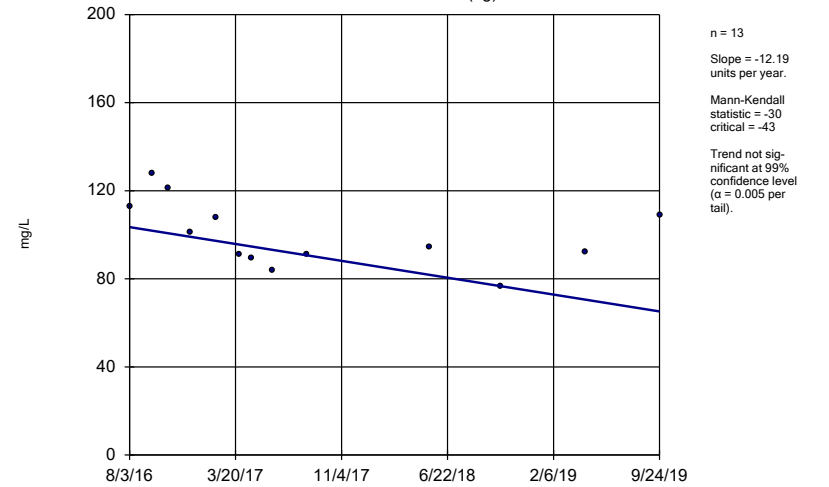
GS-AP-MW-13 (bg)



Constituent: TDS Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

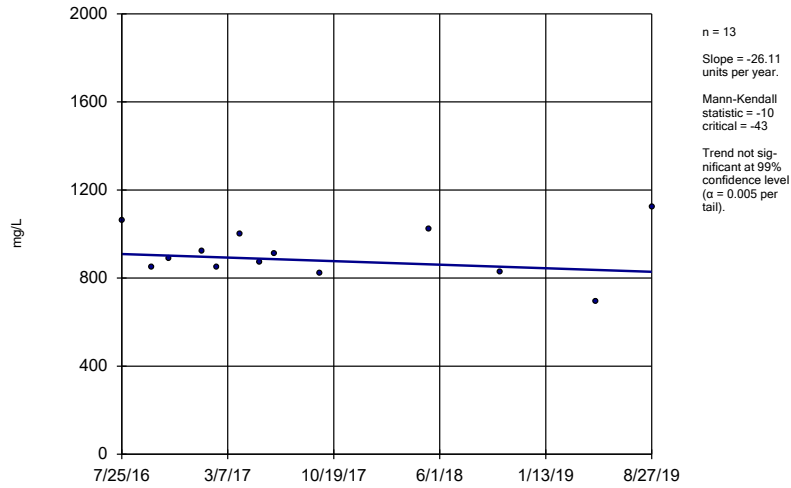
GS-AP-MW-8 (bg)



Constituent: TDS Analysis Run 1/21/2020 2:22 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

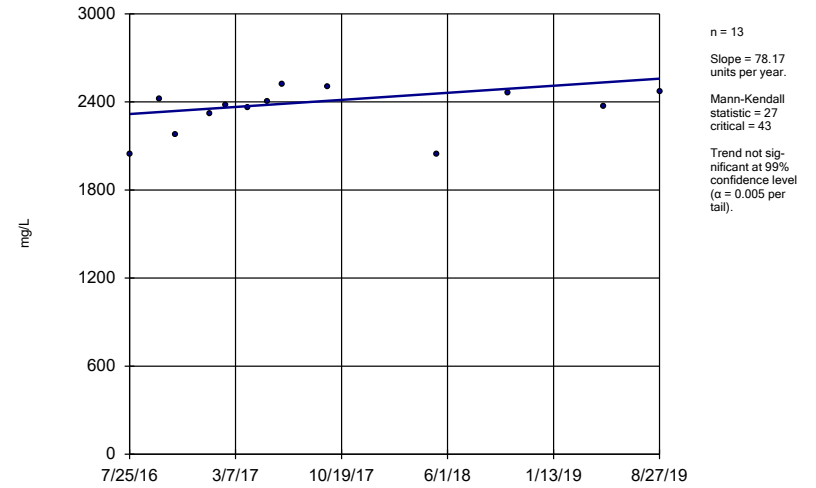
MR-AP-MW-1



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

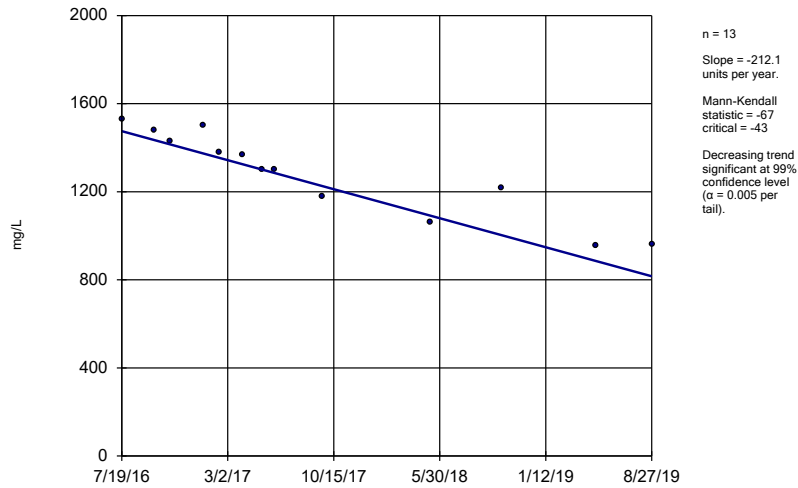
MR-AP-MW-2



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

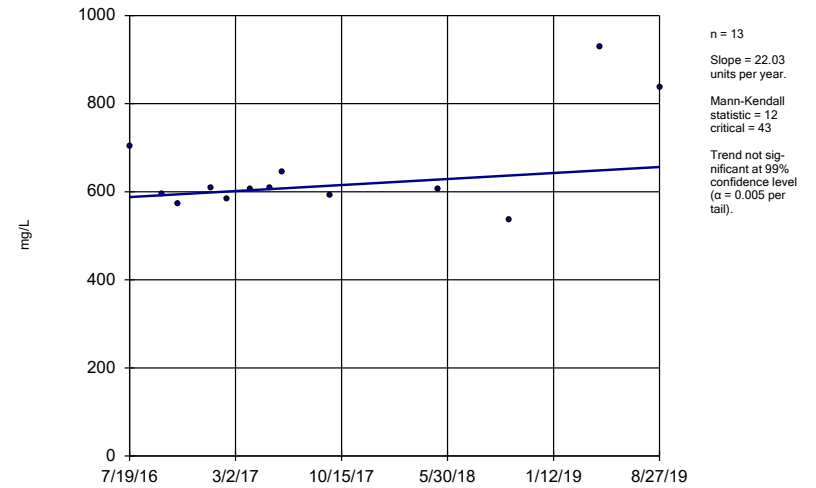
MR-AP-MW-3D



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

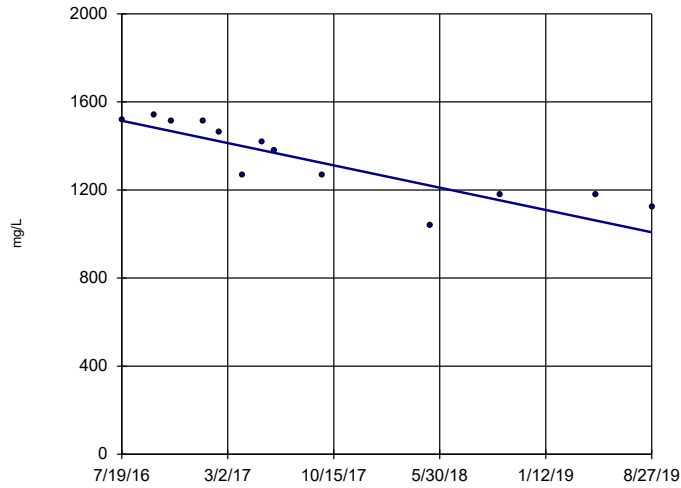
MR-AP-MW-3S



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

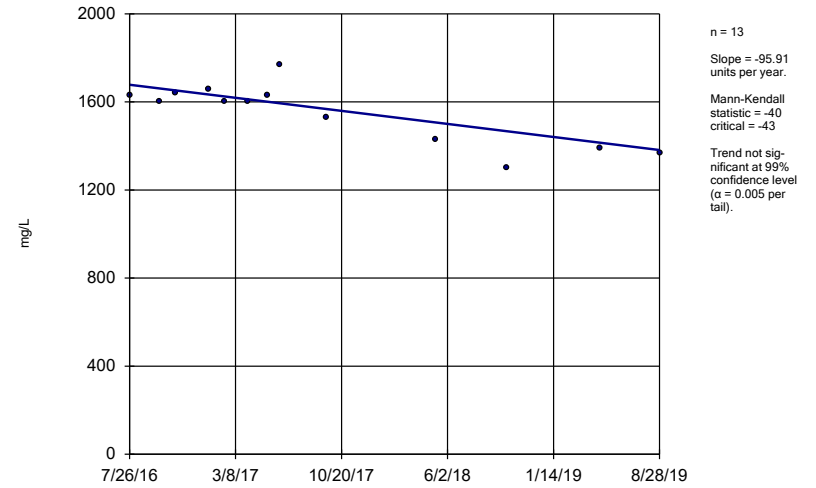
MR-AP-MW-4



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

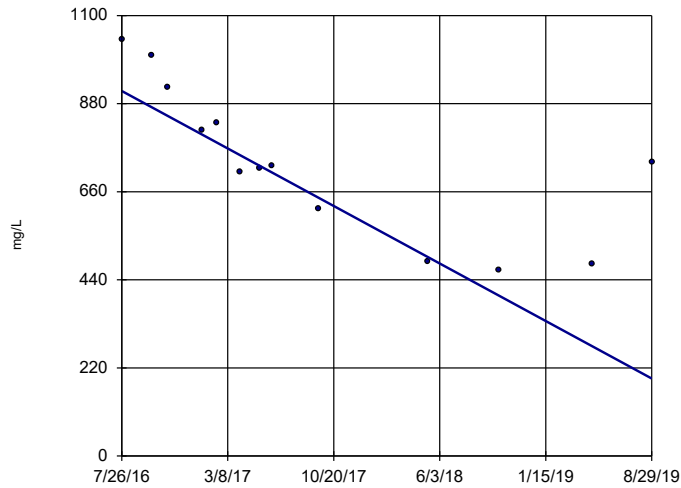
MR-AP-MW-5



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

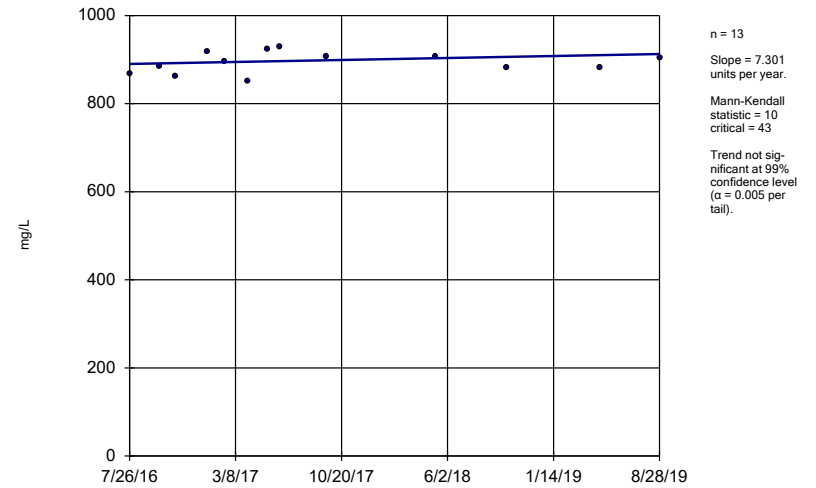
MR-AP-PZ-5



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

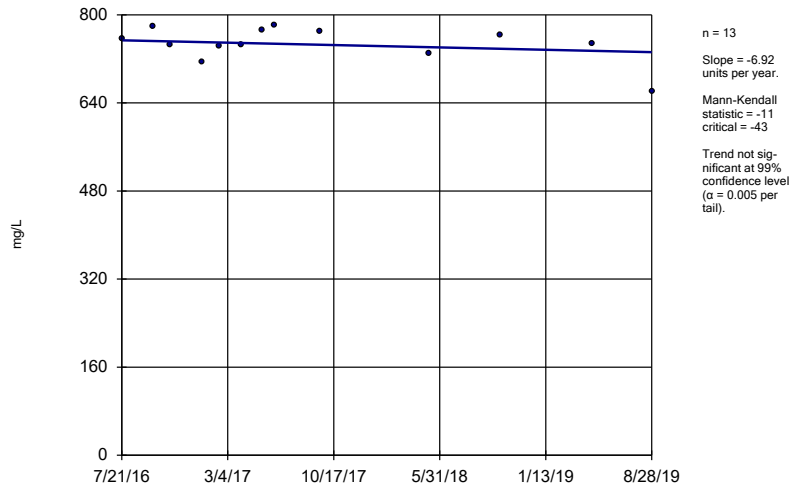
MR-AP-MW-6



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

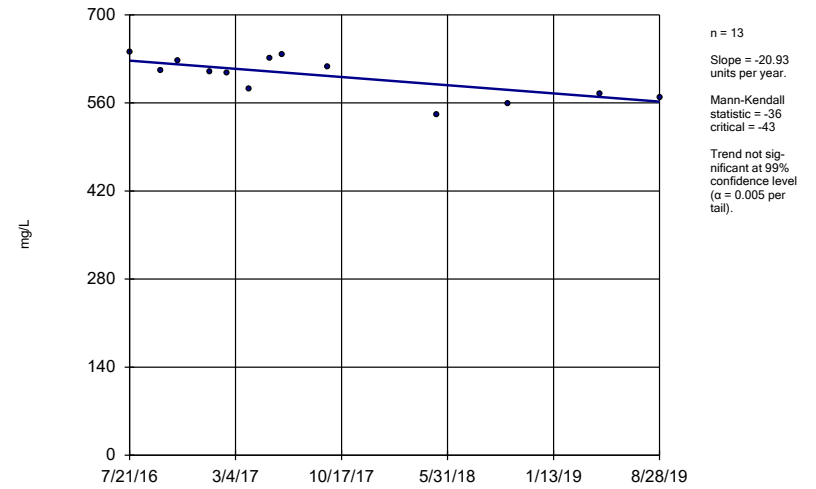
MR-AP-MW-7D



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

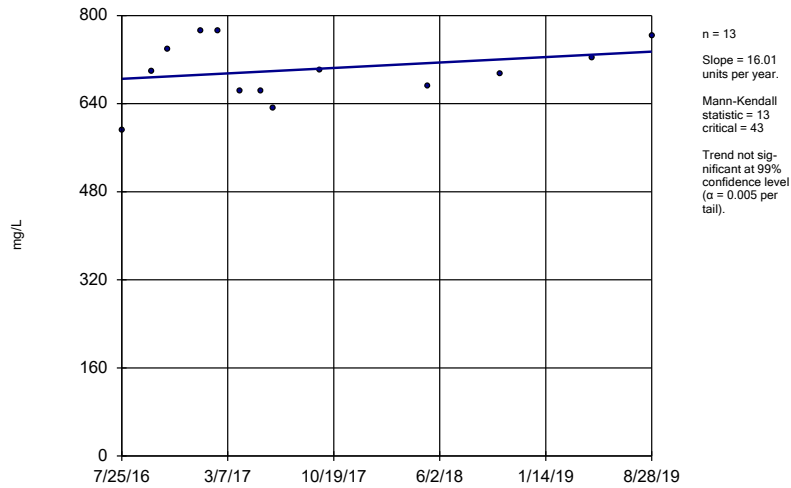
MR-AP-MW-7S



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

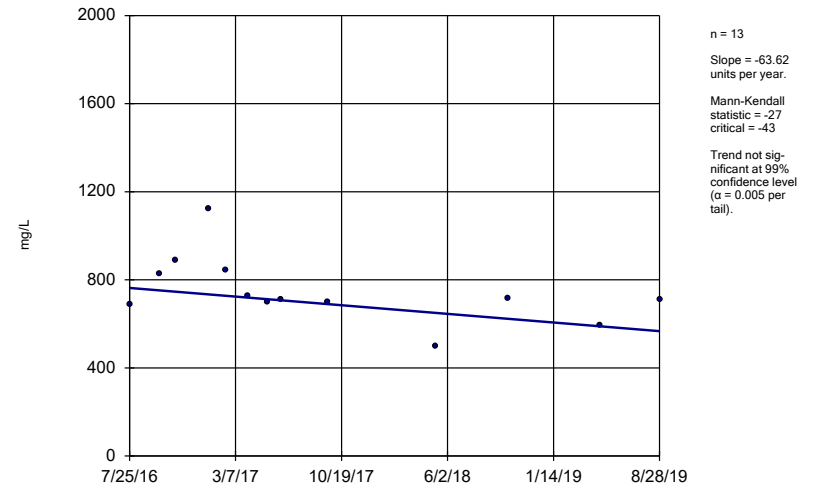
MR-AP-MW-8D



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

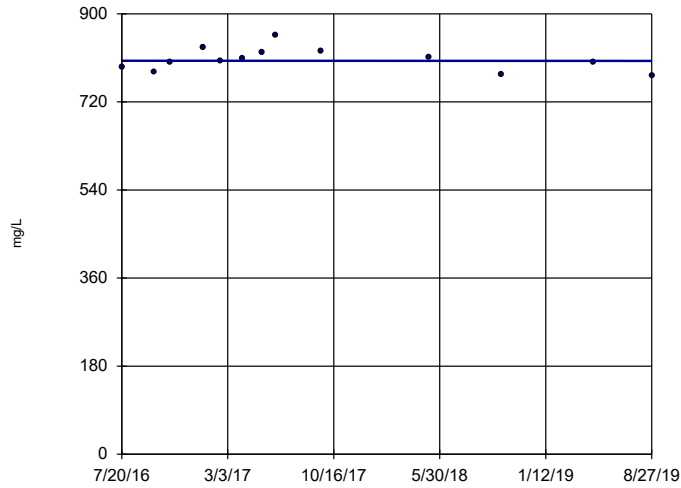
MR-AP-MW-8S



Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-9D

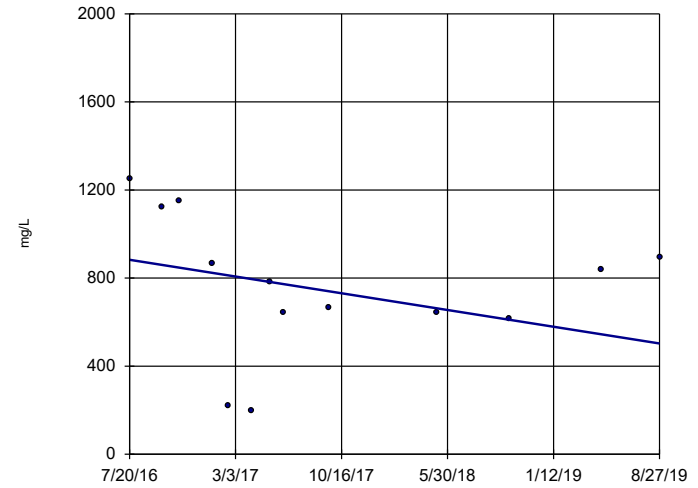


n = 13
 Slope = -0.05363 units per year.
 Mann-Kendall statistic = 0
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-9S

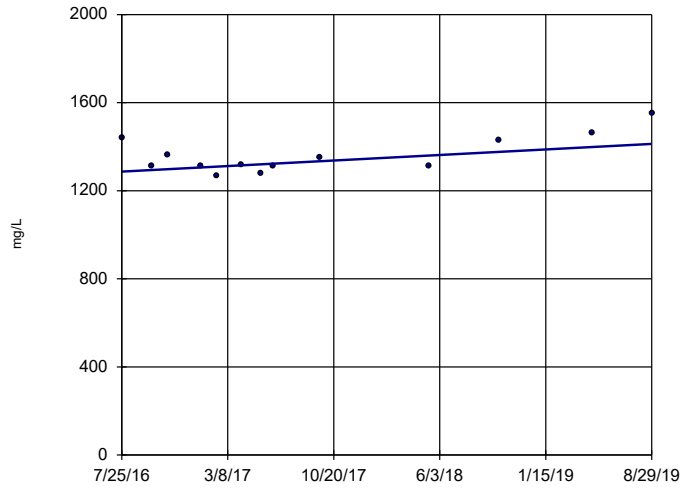


n = 13
 Slope = -122.5 units per year.
 Mann-Kendall statistic = -21
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

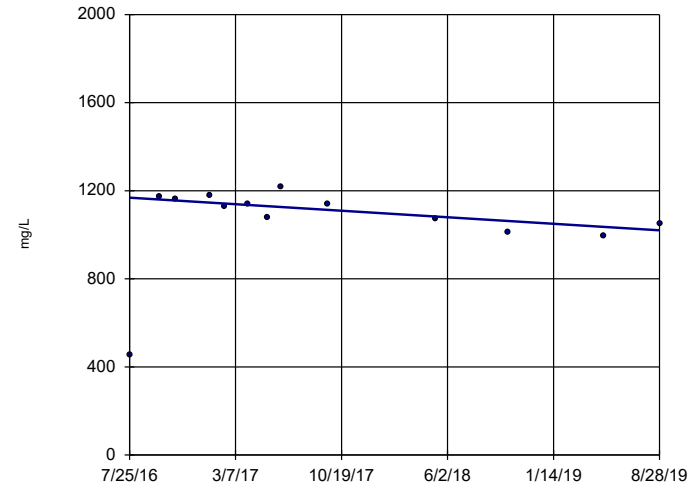


n = 13
 Slope = 40.5 units per year.
 Mann-Kendall statistic = 22
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-11

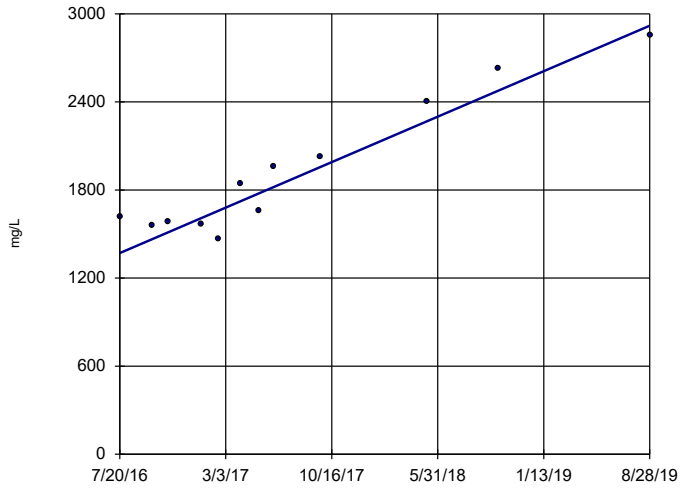


n = 13
 Slope = -48.09 units per year.
 Mann-Kendall statistic = -27
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

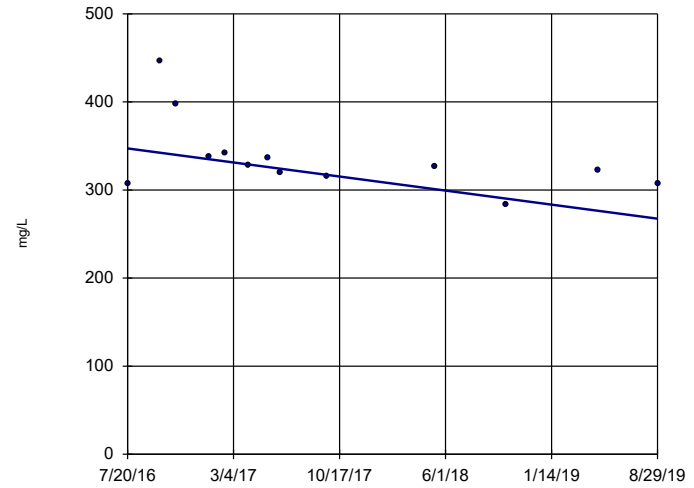


n = 12
 Slope = 498.3 units per year.
 Mann-Kendall statistic = 48
 critical = 38
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-13D

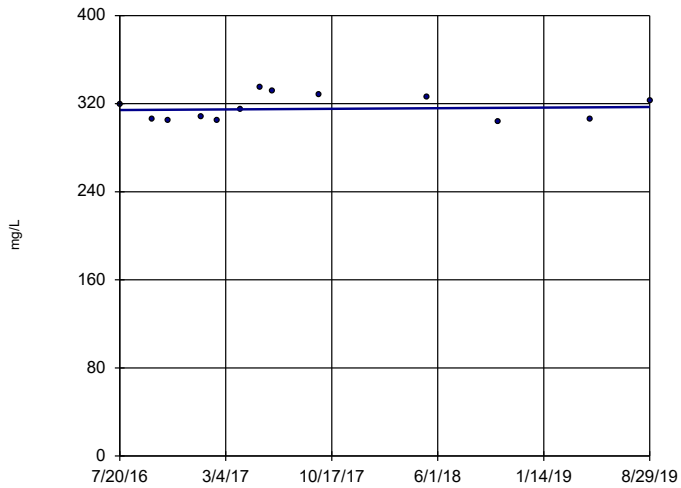


n = 13
 Slope = -25.64 units per year.
 Mann-Kendall statistic = -41
 critical = -43
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-13S

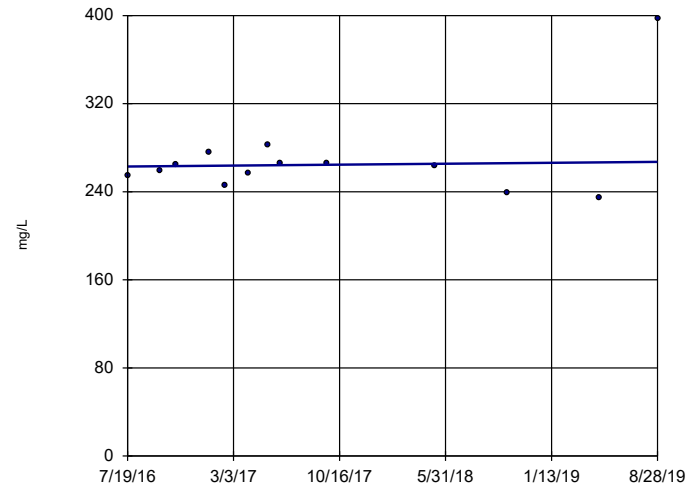


n = 13
 Slope = 0.8719 units per year.
 Mann-Kendall statistic = 6
 critical = 43
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-15

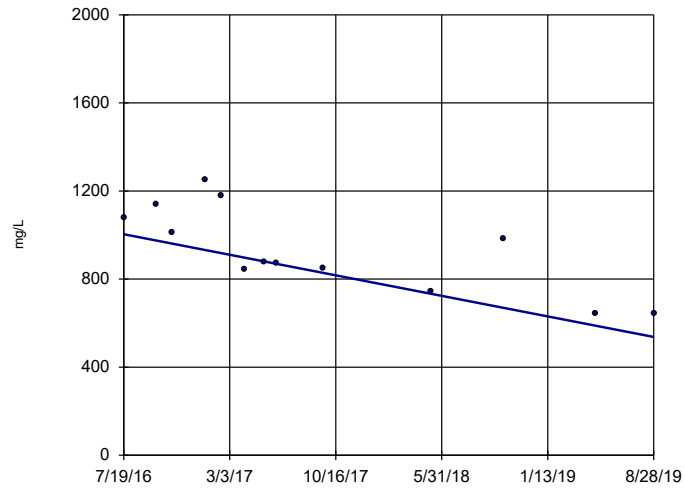


n = 13
 Slope = 1.38 units per year.
 Mann-Kendall statistic = 3
 critical = 43
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-16



n = 13

Slope = -150.1
units per year.

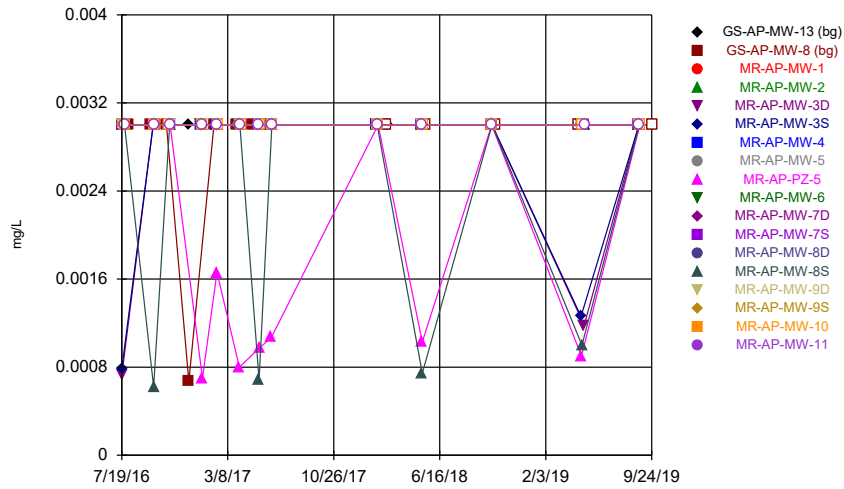
Mann-Kendall
statistic = -48
critical = -43

Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

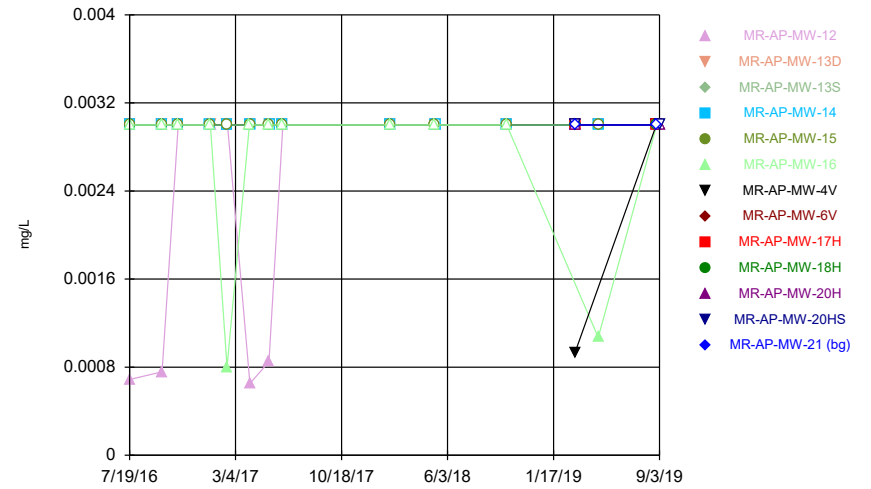
Constituent: TDS Analysis Run 1/21/2020 2:23 PM View: Trend Tests

Plant Miller Client: Southern Company Data: Miller Ash Pond

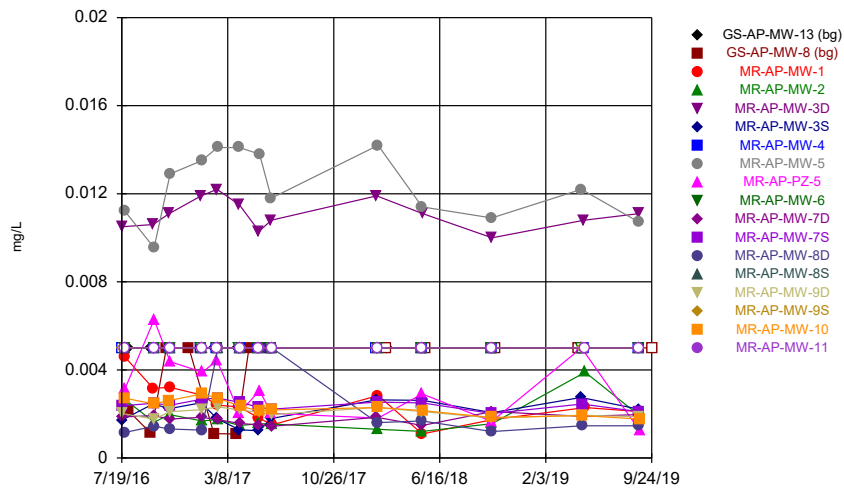
Time Series



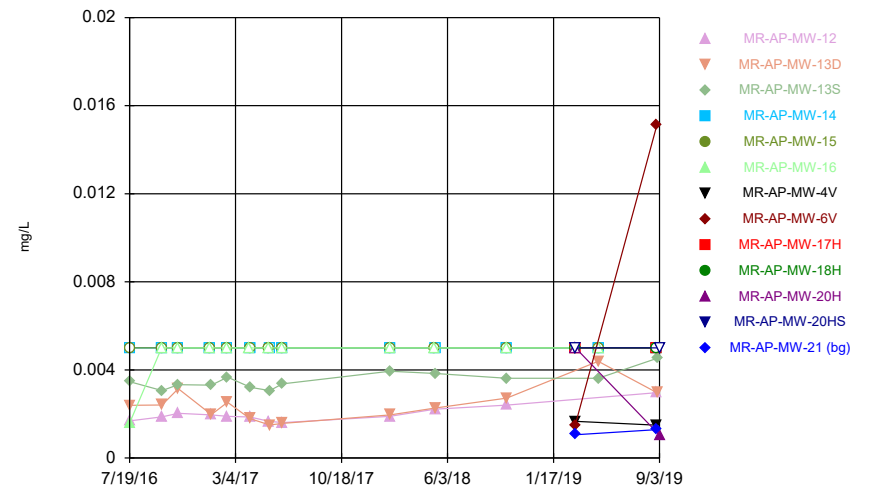
Time Series



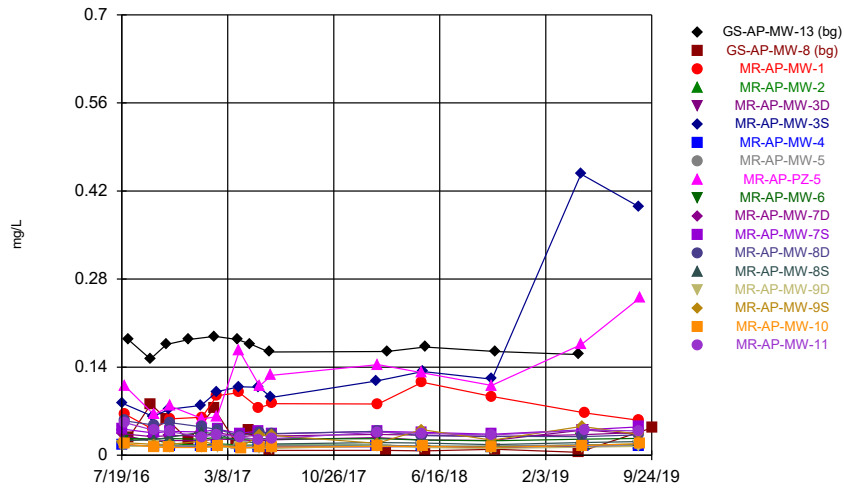
Time Series



Time Series

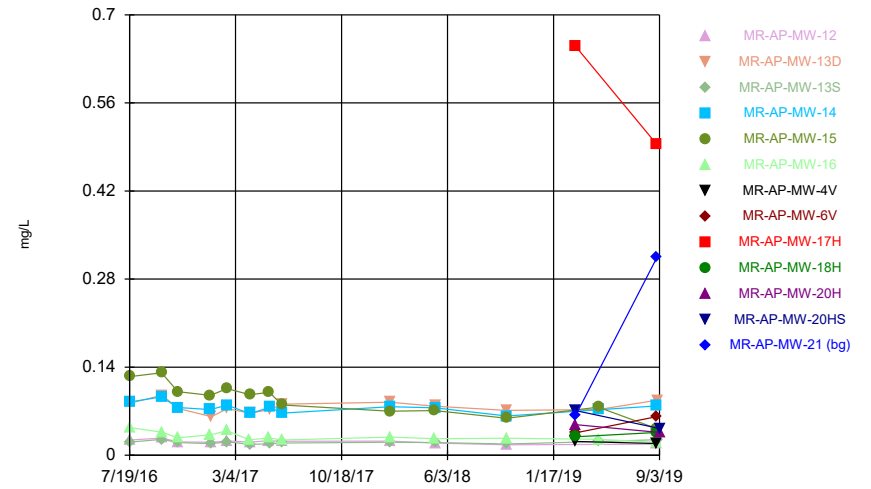


Time Series



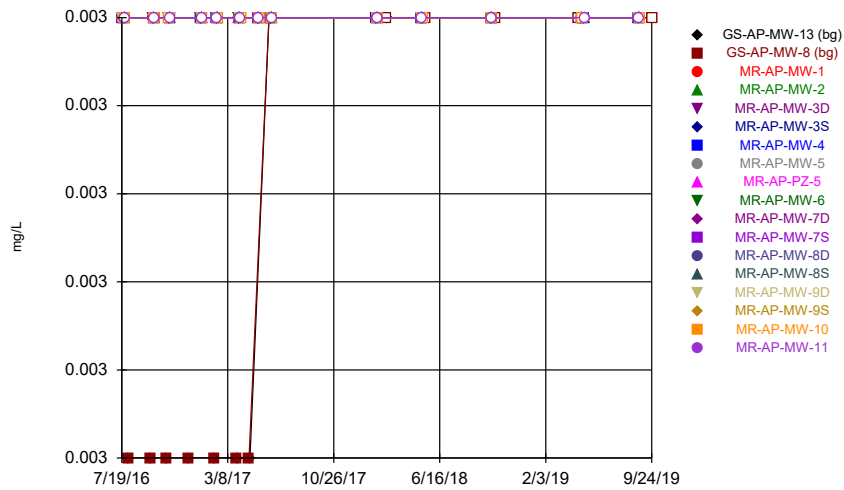
Constituent: Barium Analysis Run 1/21/2020 2:26 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



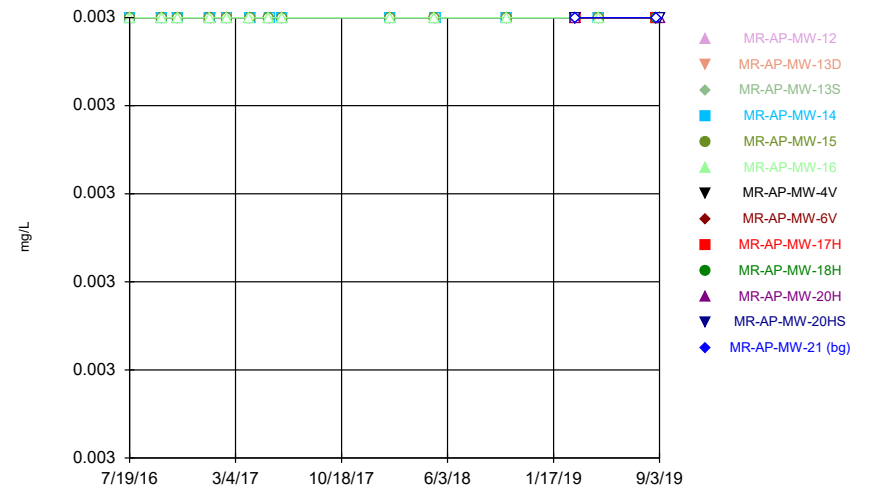
Constituent: Barium Analysis Run 1/21/2020 2:26 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



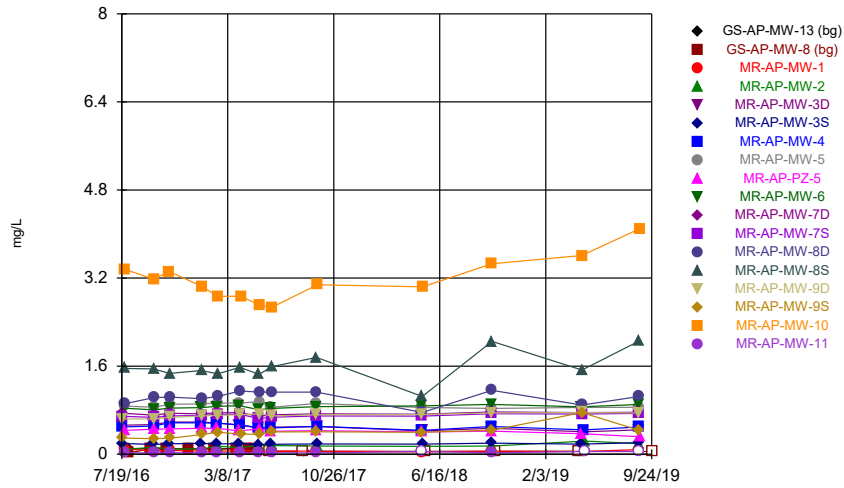
Constituent: Beryllium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



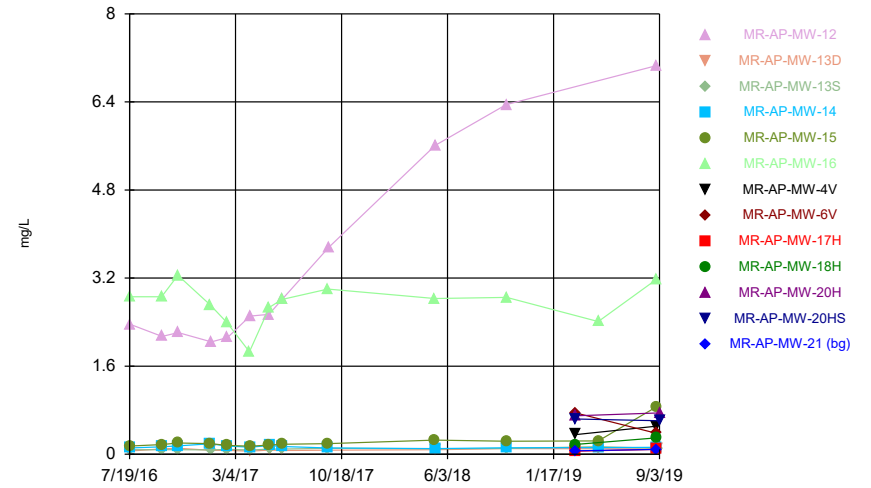
Constituent: Beryllium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



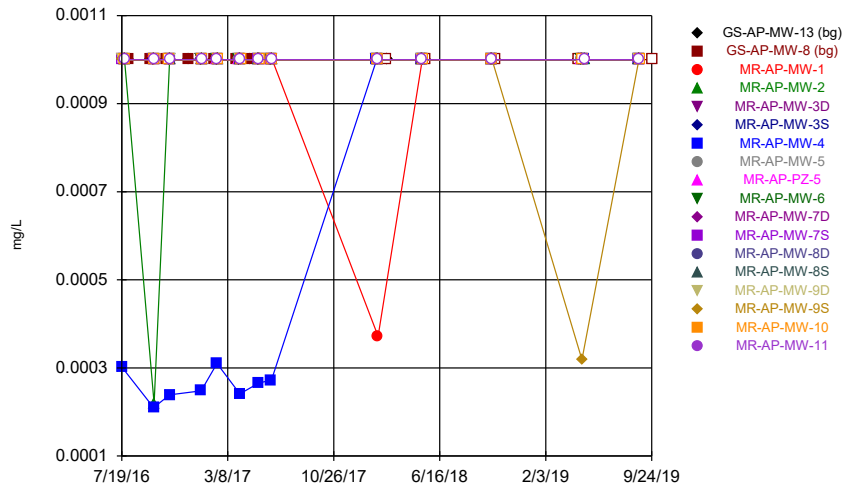
Constituent: Boron Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



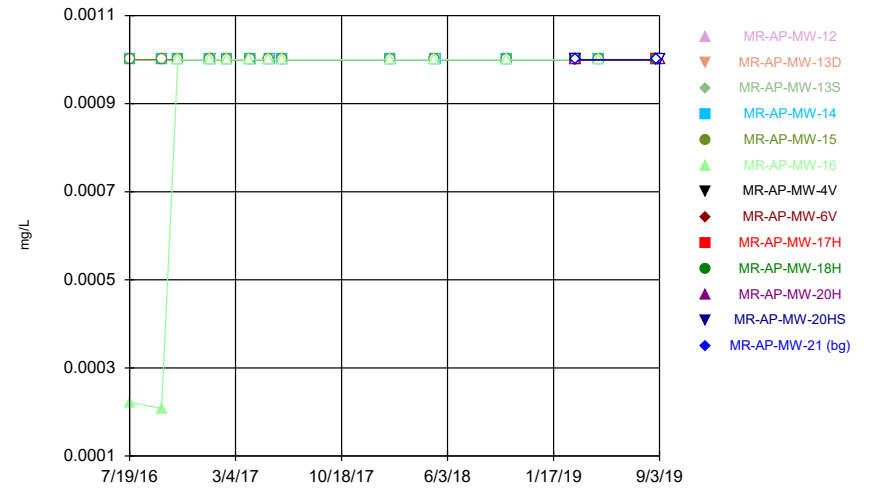
Constituent: Boron Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



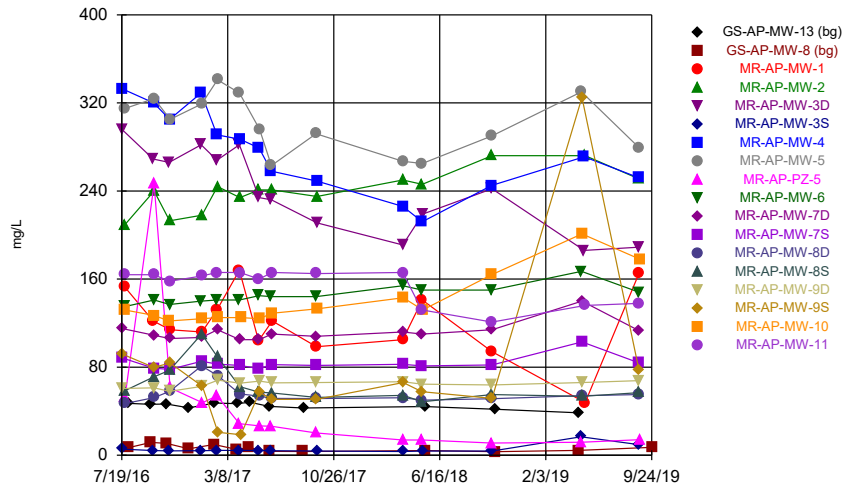
Constituent: Cadmium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



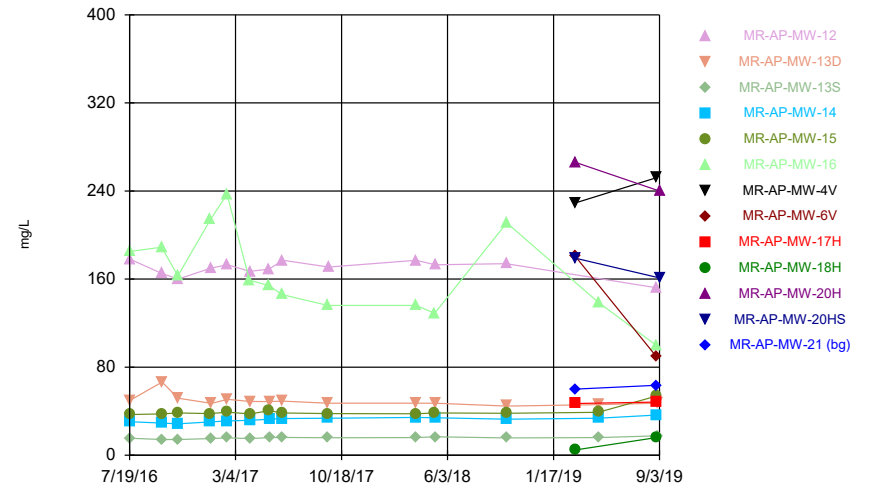
Constituent: Cadmium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



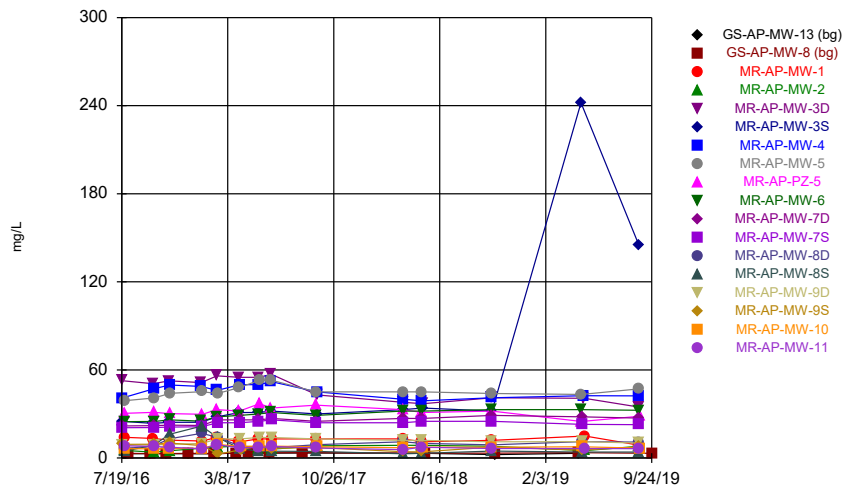
Constituent: Calcium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



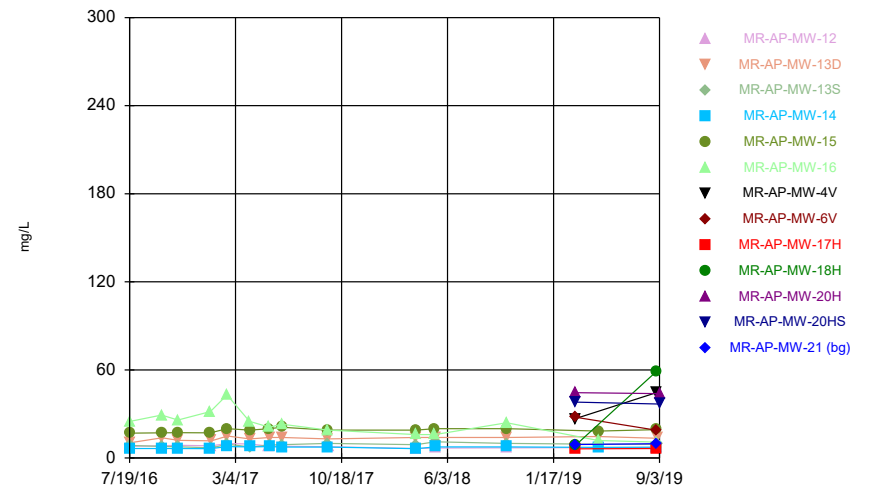
Constituent: Calcium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



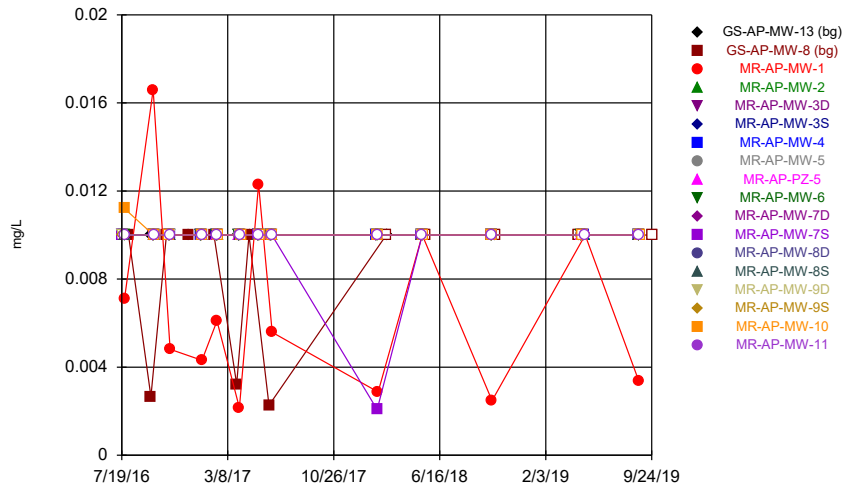
Constituent: Chloride Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



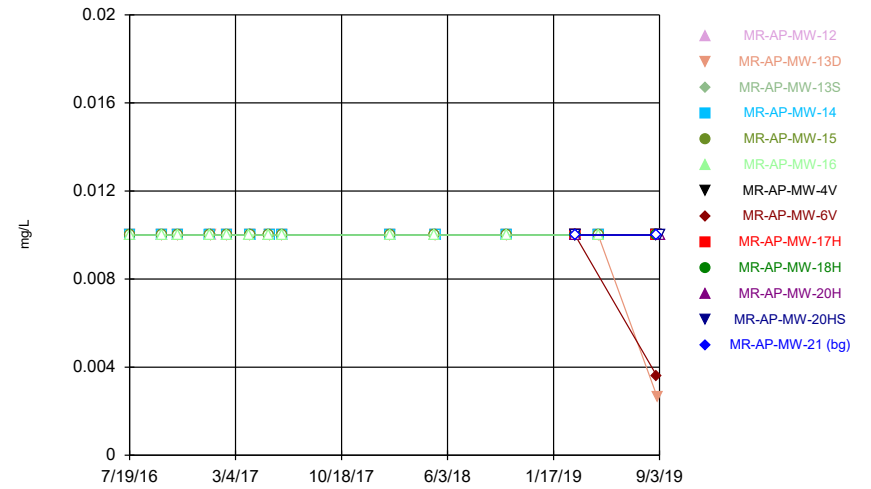
Constituent: Chloride Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



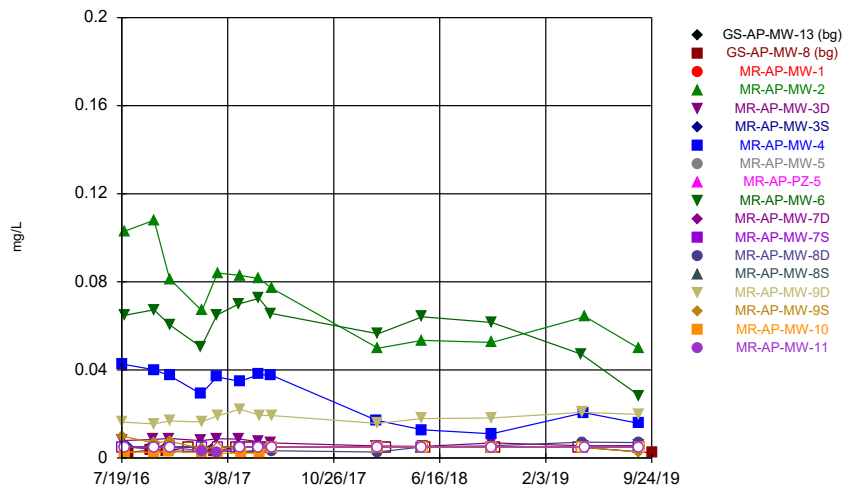
Constituent: Chromium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



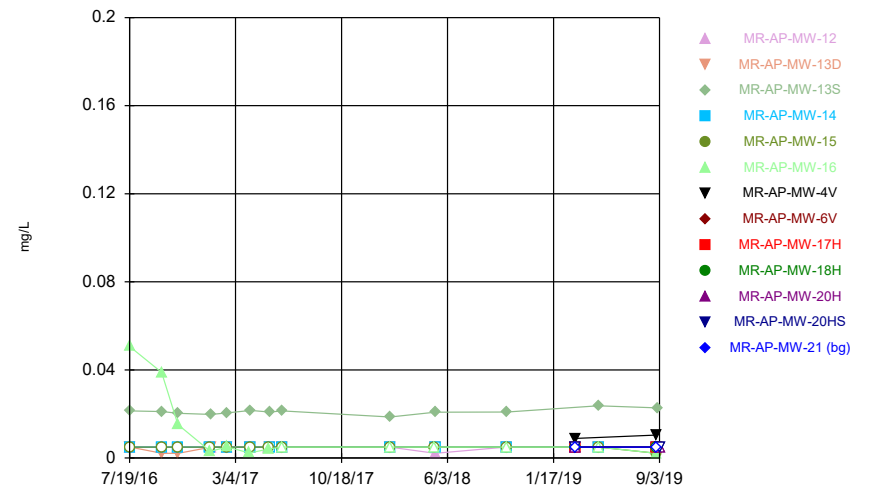
Constituent: Chromium Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



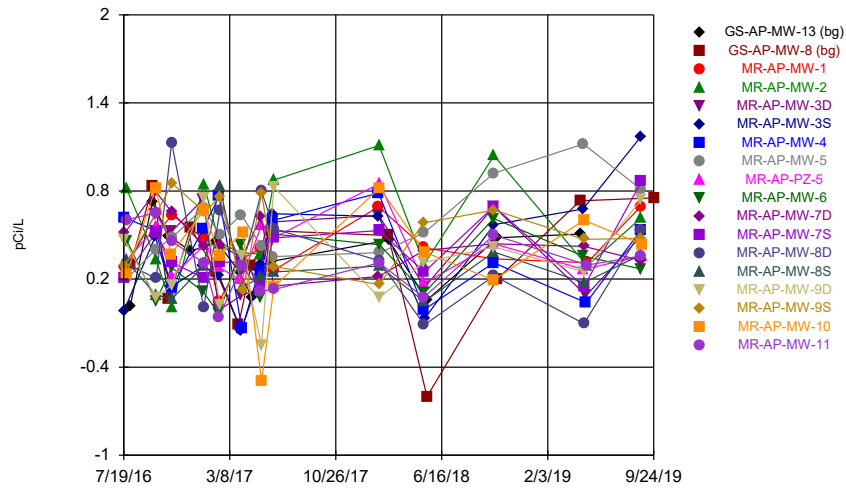
Constituent: Cobalt Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



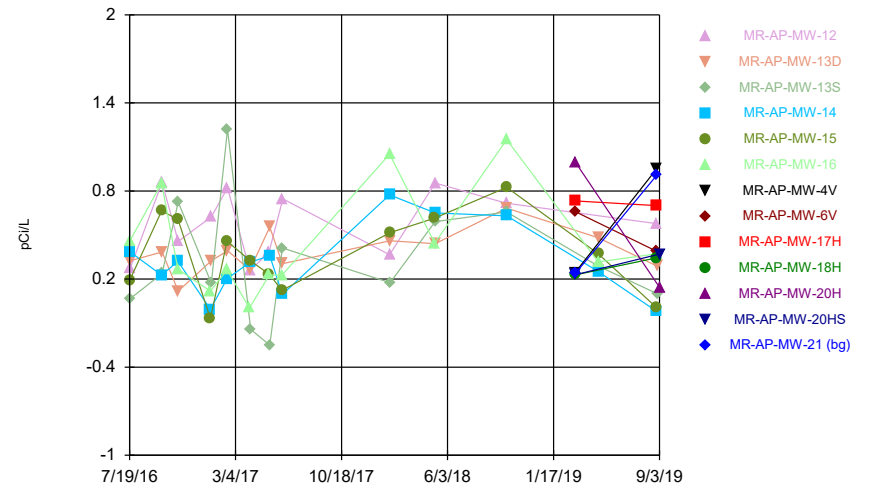
Constituent: Cobalt Analysis Run 1/21/2020 2:27 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



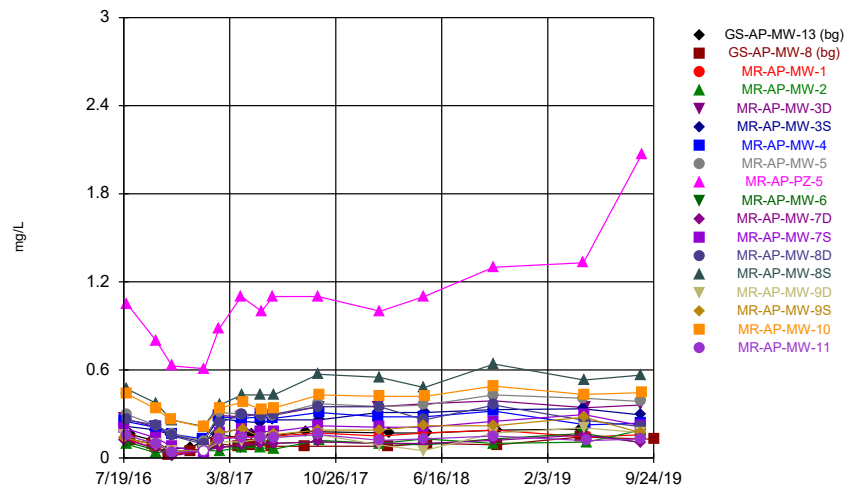
Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



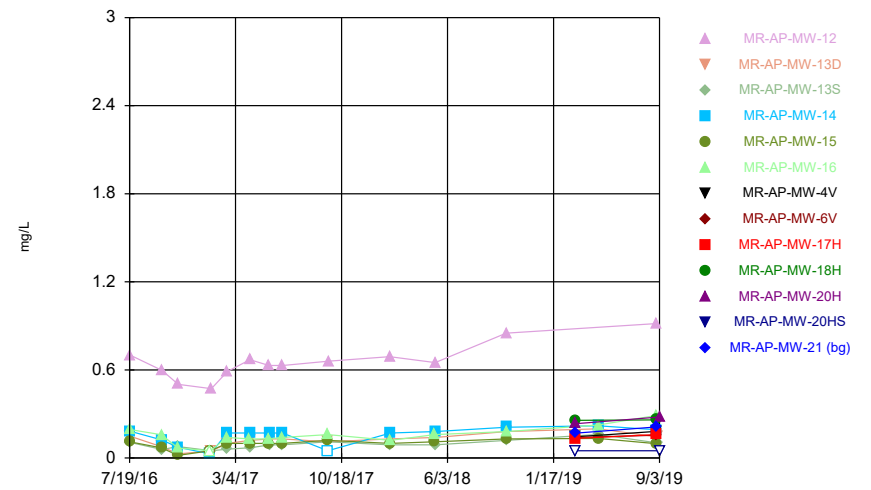
Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



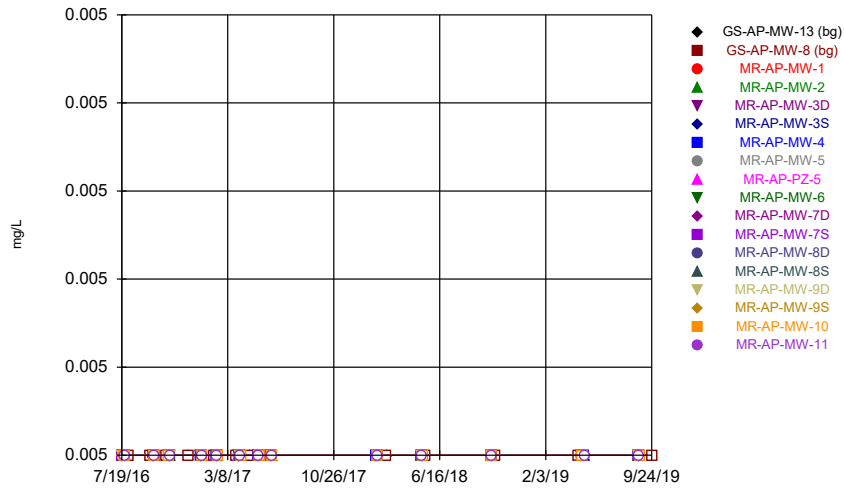
Constituent: Fluoride Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



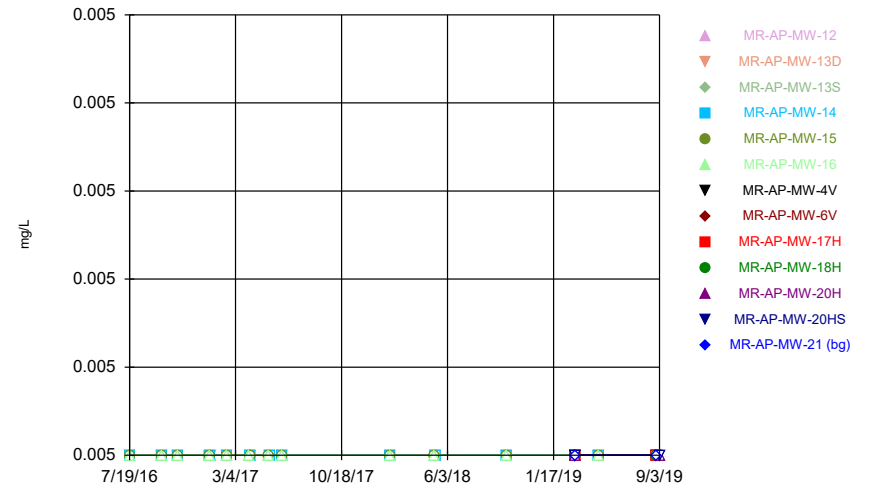
Constituent: Fluoride Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



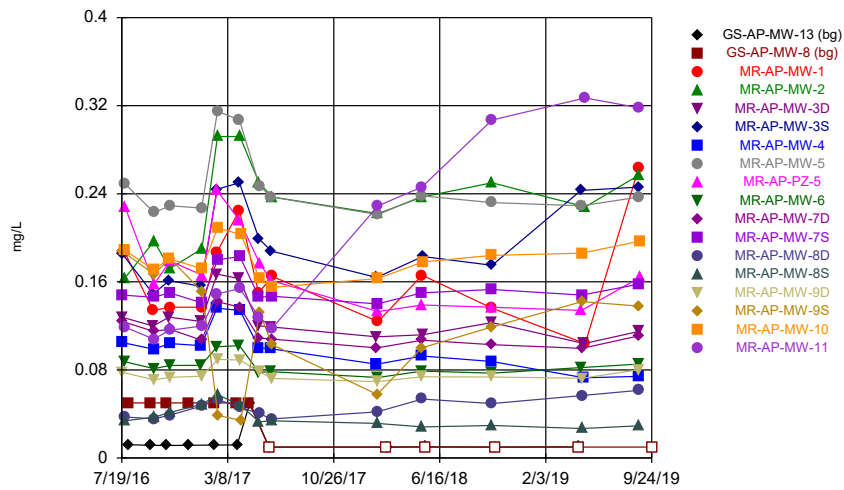
Constituent: Lead Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



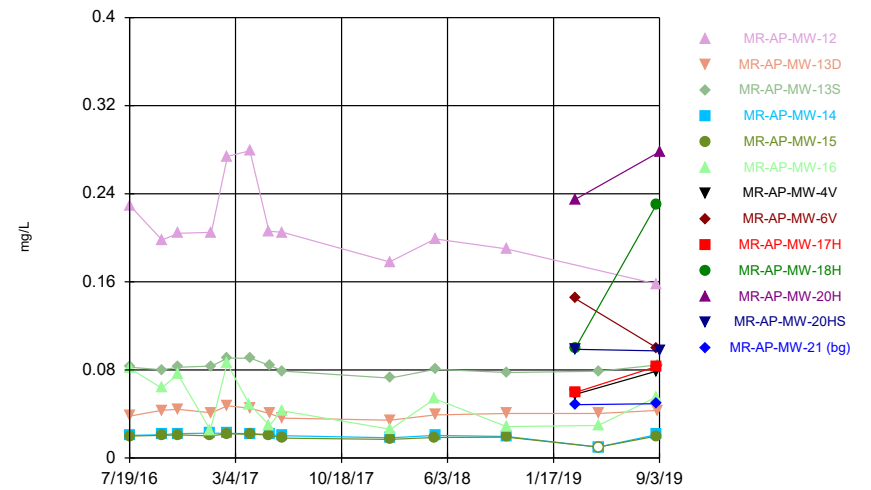
Constituent: Lead Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



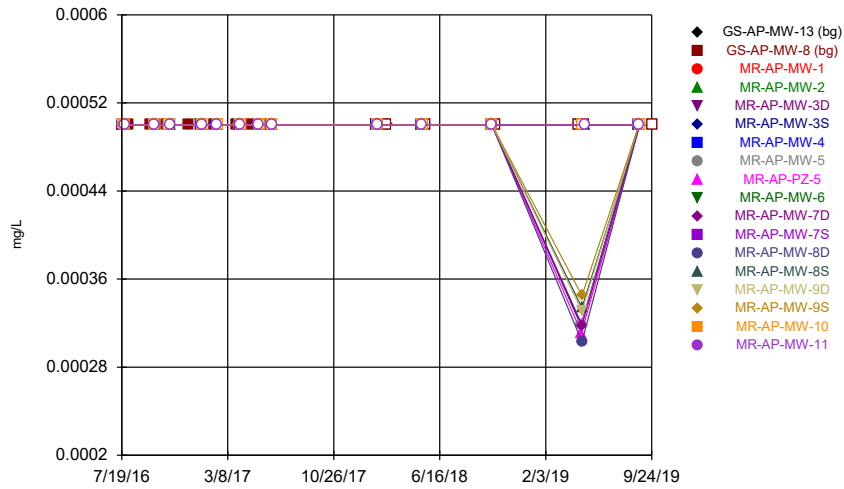
Constituent: Lithium Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



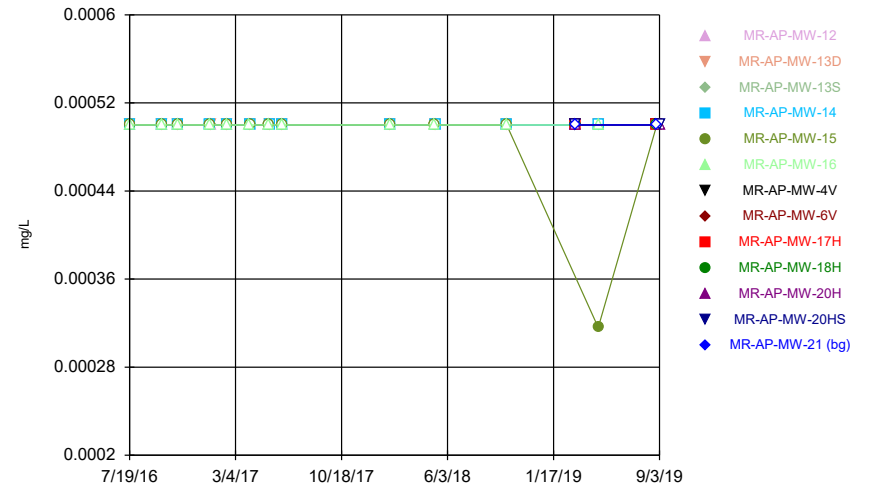
Constituent: Lithium Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



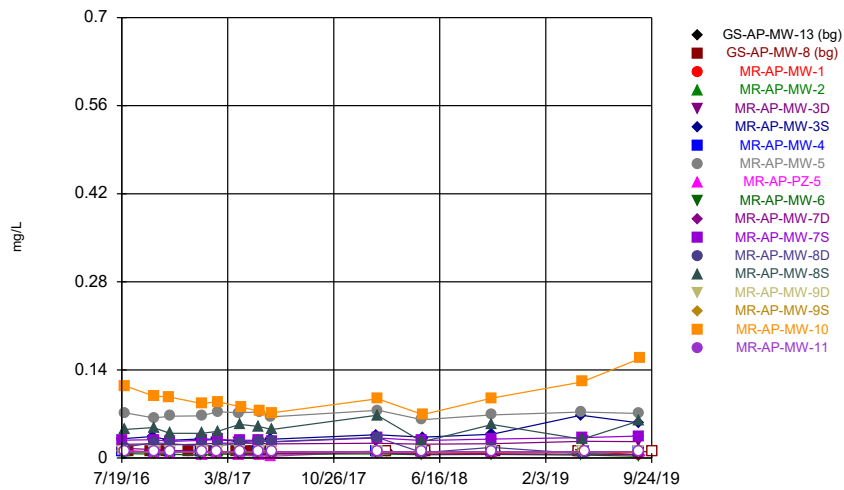
Constituent: Mercury Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



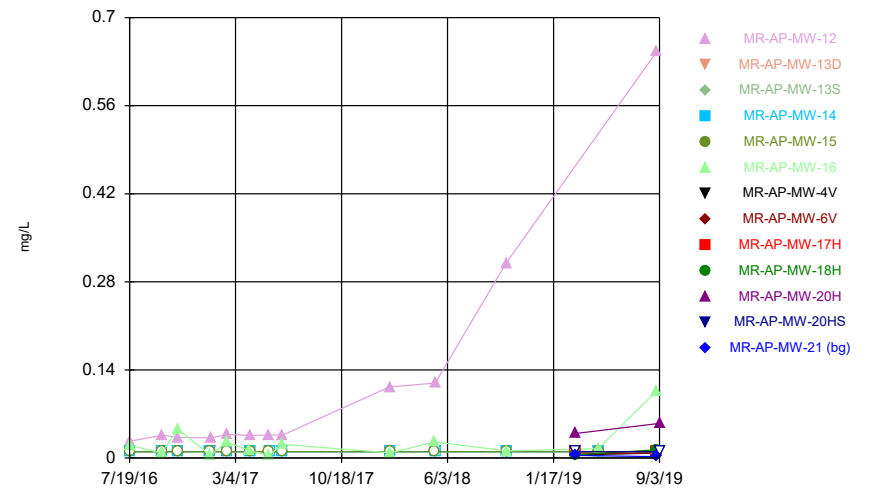
Constituent: Mercury Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



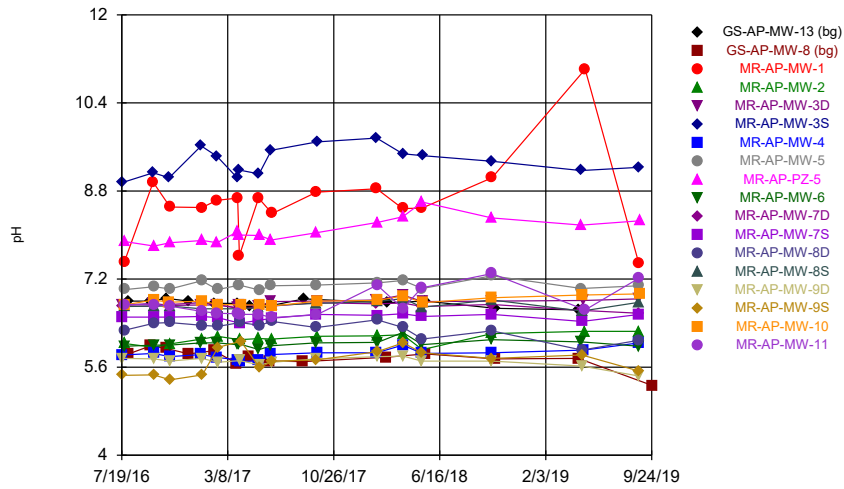
Constituent: Molybdenum Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



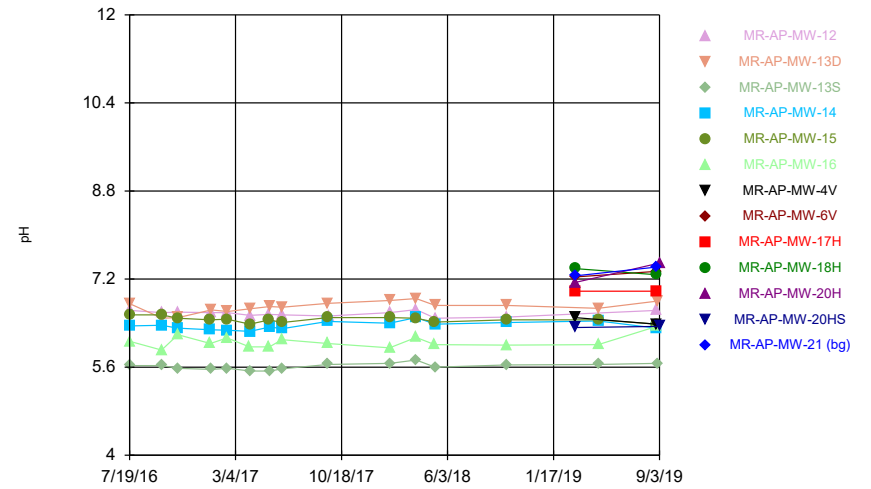
Constituent: Molybdenum Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



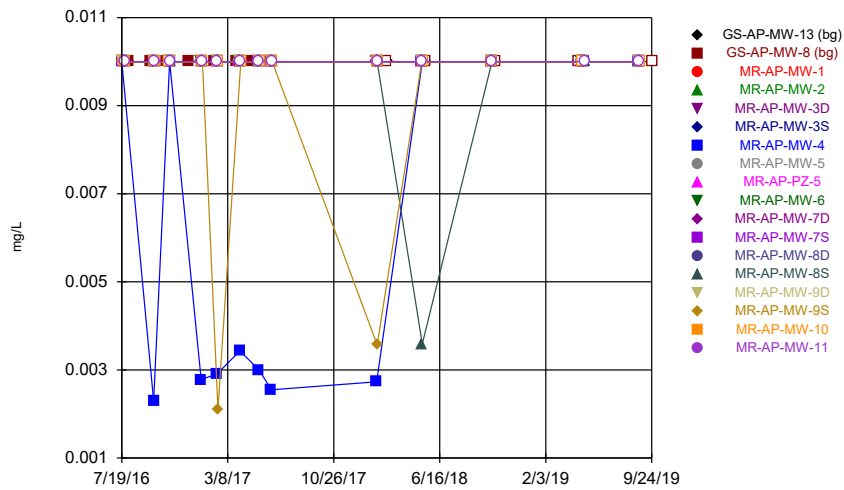
Constituent: pH Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



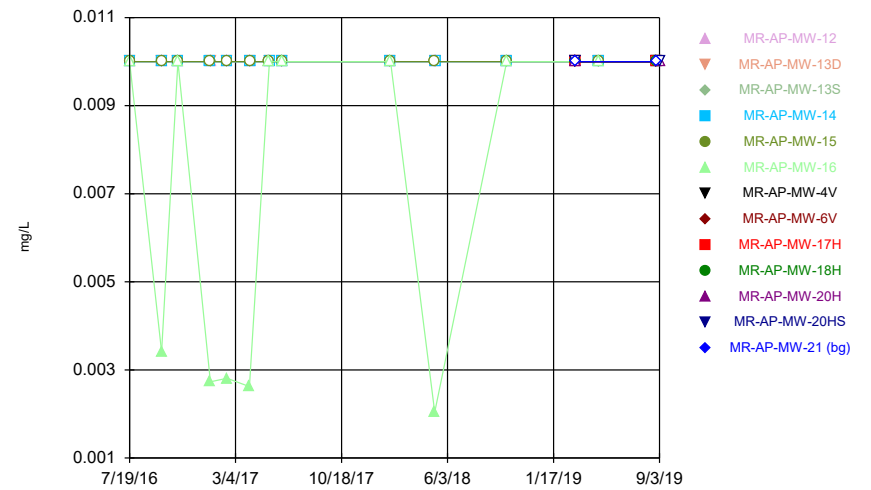
Constituent: pH Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



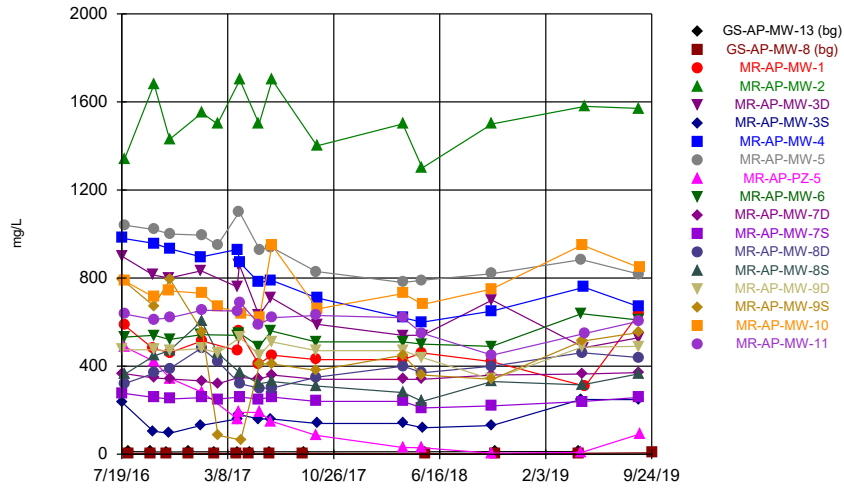
Constituent: Selenium Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



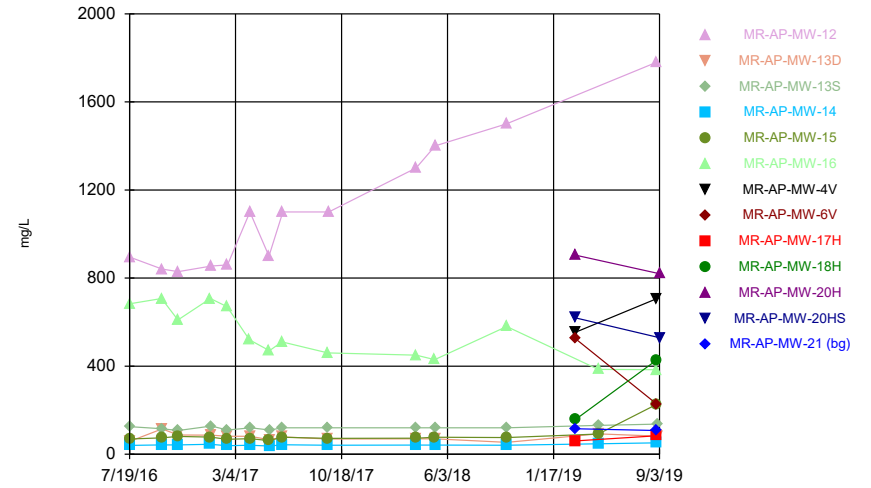
Constituent: Selenium Analysis Run 1/21/2020 2:28 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



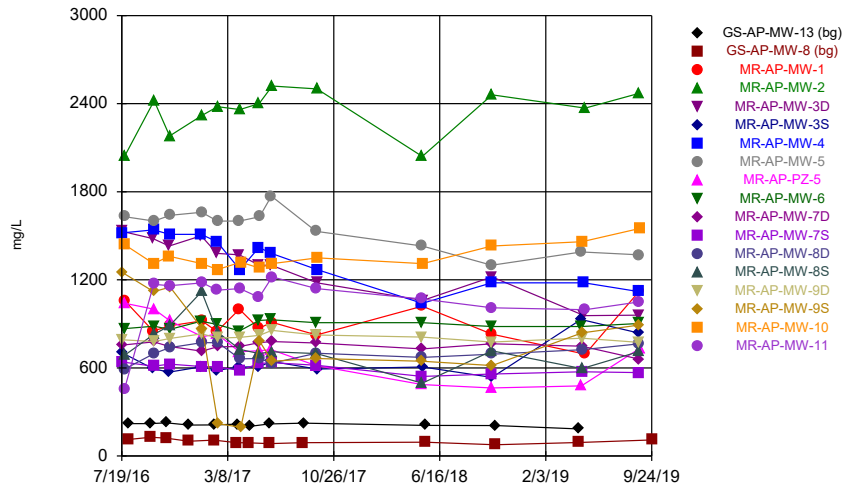
Constituent: Sulfate Analysis Run 1/21/2020 2:29 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



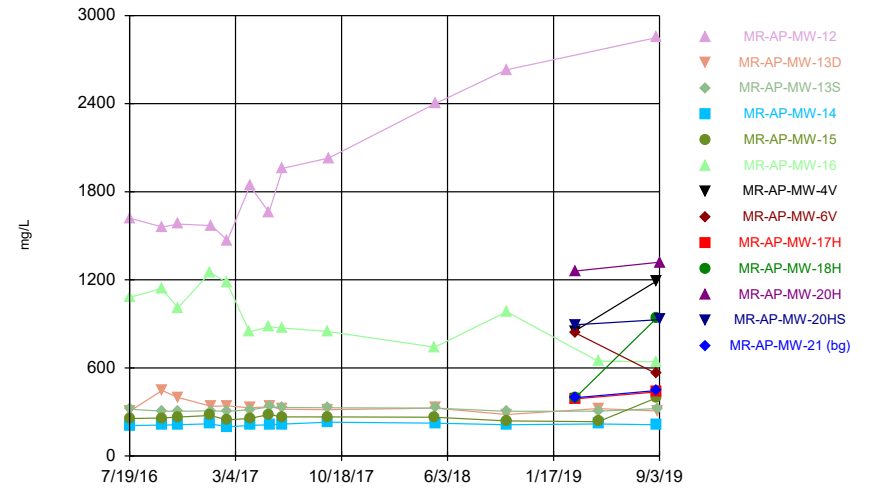
Constituent: Sulfate Analysis Run 1/21/2020 2:29 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



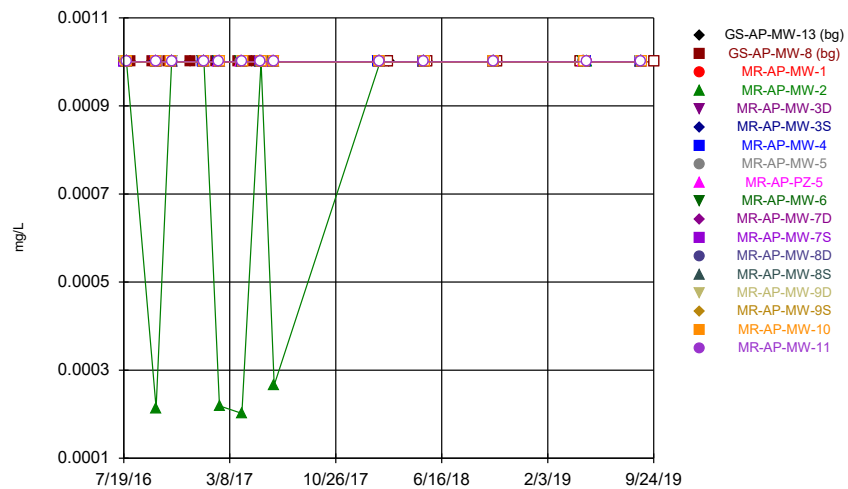
Constituent: TDS Analysis Run 1/21/2020 2:29 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



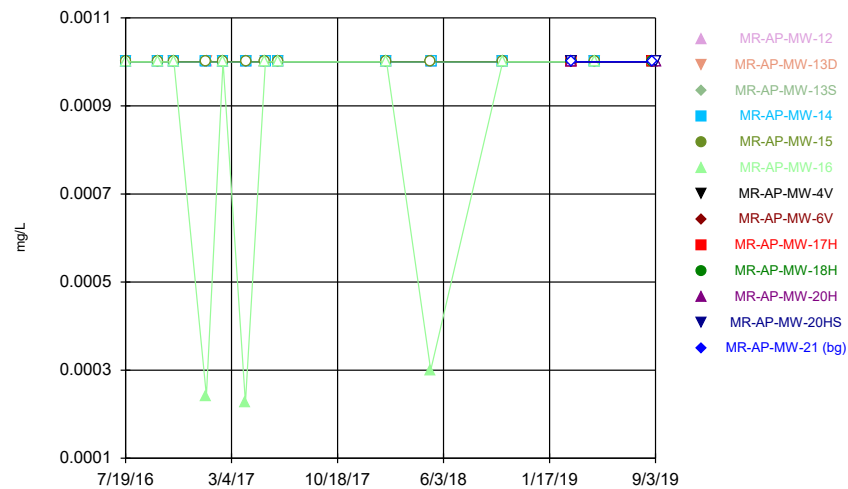
Constituent: TDS Analysis Run 1/21/2020 2:29 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Thallium Analysis Run 1/21/2020 2:29 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



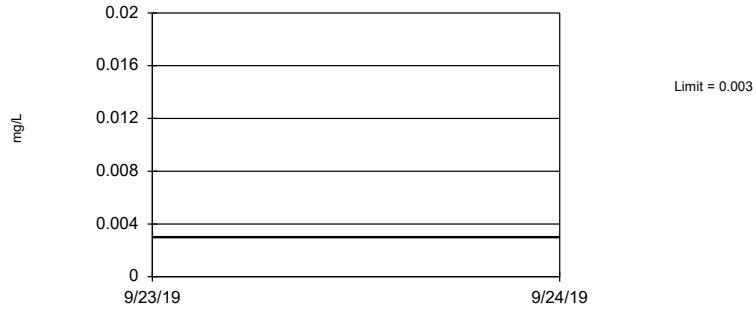
Constituent: Thallium Analysis Run 1/21/2020 2:29 PM View: Time Series - All Data
Plant Miller Client: Southern Company Data: Miller Ash Pond

Upper Tolerance Limits - Appendix IV

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:33 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Arsenic (mg/L)	0.005	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Barium (mg/L)	0.189	n/a	25	n/a	n/a	0	n/a	n/a	0.2774	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Cadmium (mg/L)	0.001	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Chromium (mg/L)	0.01	n/a	25	n/a	n/a	40	n/a	n/a	0.2774	NP Inter(normal...
Cobalt (mg/L)	0.005	n/a	25	n/a	n/a	80	n/a	n/a	0.2774	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.063	n/a	25	0.3412	0.315	0	None	No	0.05	Inter
Fluoride (mg/L)	0.2237	n/a	27	0.1183	0.04659	0	None	No	0.05	Inter
Lead (mg/L)	0.005	n/a	25	n/a	n/a	100	n/a	n/a	0.2774	NP Inter(NDs)
Lithium (mg/L)	0.05	n/a	25	n/a	n/a	36	n/a	n/a	0.2774	NP Inter(normal...
Mercury (mg/L)	0.0005	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Molybdenum (mg/L)	0.01	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Selenium (mg/L)	0.01	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...
Thallium (mg/L)	0.001	n/a	25	n/a	n/a	44	n/a	n/a	0.2774	NP Inter(normal...

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Antimony Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

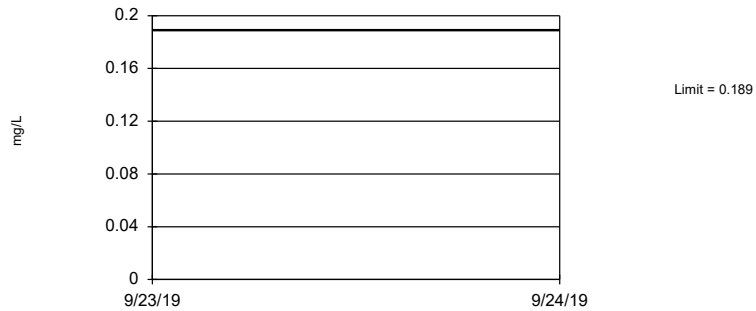
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Arsenic Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

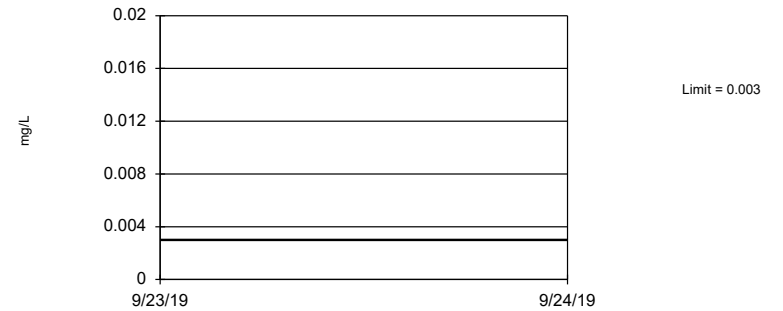
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Barium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

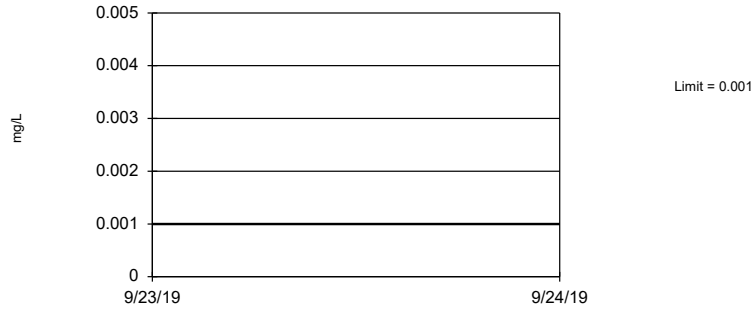
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Beryllium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

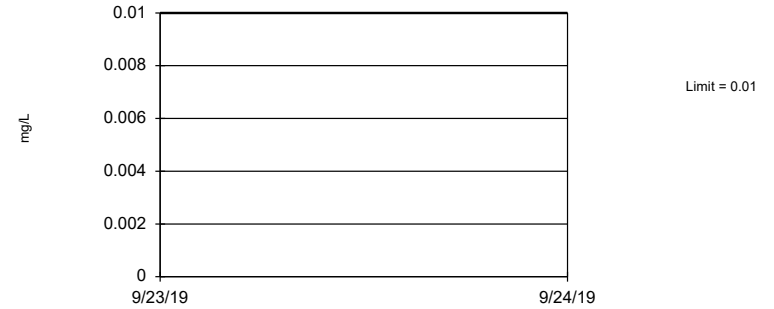
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Cadmium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

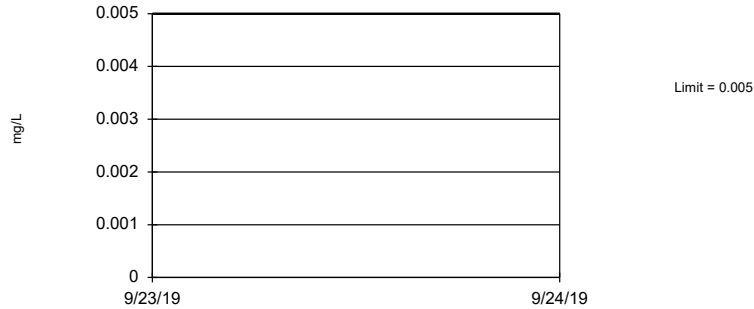
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 40% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Chromium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

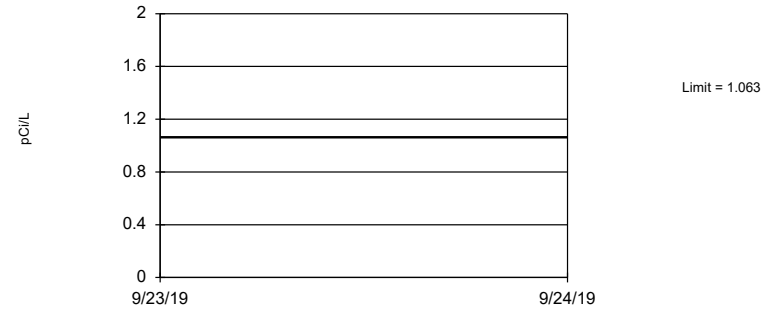
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Cobalt Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

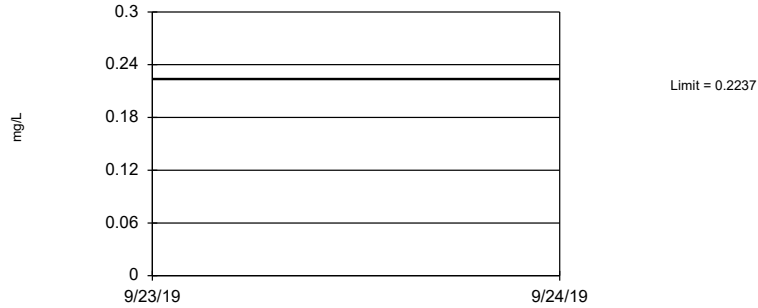
Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary: Mean=0.3412, Std. Dev.=0.315, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.888. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary: Mean=0.1183, Std. Dev.=0.04659, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.894. Report alpha = 0.05.

Constituent: Fluoride Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Lead Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

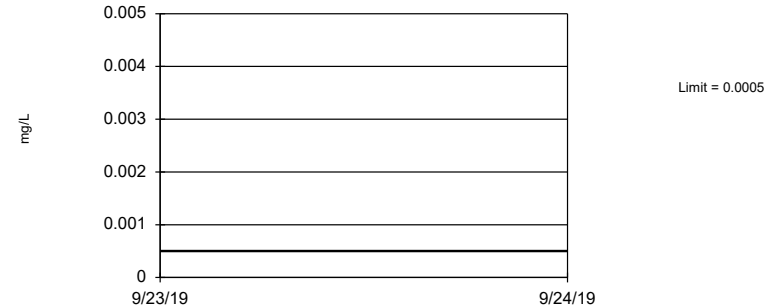
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 36% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Lithium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Mercury Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Molybdenum Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Selenium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. 83.01% coverage at alpha=0.01; 88.87% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.2774.

Constituent: Thallium Analysis Run 1/21/2020 2:32 PM View: Tolerance Limits
Plant Miller Client: Southern Company Data: Miller Ash Pond

Confidence Intervals - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-3D	0.01155	0.01057	0.01	Yes	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-5	0.01348	0.01119	0.01	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.0878	0.05903	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3D	0.008187	0.006185	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-4	0.03755	0.02211	0.006	Yes	13	0	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.06767	0.05258	0.006	Yes	13	0	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-9D	0.01979	0.01673	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13S	0.022	0.02012	0.006	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.1955	0.13	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.2601	0.1995	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.163	0.11	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-3S	0.2224	0.1677	0.05	Yes	13	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.1135	0.08523	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.307	0.223	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-PZ-5	0.199	0.1449	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.09017	0.07774	0.05	Yes	13	0	x^(1/3)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7D	0.1237	0.1039	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7S	0.18	0.141	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-9D	0.089	0.0709	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-9S	0.1572	0.08154	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.1929	0.1688	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.318	0.116	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-12	0.2381	0.1827	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13S	0.08578	0.07836	0.05	Yes	13	0	No	0.01	Param.

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-1	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-2	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3D	0.003	0.00118	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3S	0.003	0.00126	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-4	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-5	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-PZ-5	0.003	0.0008	0.006	No	13	46.15	No	0.01	NP (normality)
Antimony (mg/L)	MR-AP-MW-6	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-7D	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-7S	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-8D	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-8S	0.003	0.000683	0.006	No	13	69.23	No	0.01	NP (normality)
Antimony (mg/L)	MR-AP-MW-9D	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-9S	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-10	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-11	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-12	0.003	0.00069	0.006	No	12	66.67	No	0.01	NP (normality)
Antimony (mg/L)	MR-AP-MW-13D	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-13S	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-14	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-15	0.003	0.003	0.006	No	13	100	No	0.01	NP (NDs)
Antimony (mg/L)	MR-AP-MW-16	0.003	0.00107	0.006	No	13	84.62	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-1	0.003132	0.001787	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-2	0.00267	0.0013	0.01	No	13	0	No	0.01	NP (normality)
Arsenic (mg/L)	MR-AP-MW-3D	0.01155	0.01057	0.01	Yes	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3S	0.002478	0.001727	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-4	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-5	0.01348	0.01119	0.01	Yes	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-PZ-5	0.004341	0.002105	0.01	No	13	7.692	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-6	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-7D	0.001921	0.001611	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7S	0.002561	0.002254	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-8D	0.005	0.0012	0.01	No	13	30.77	No	0.01	NP (normality)
Arsenic (mg/L)	MR-AP-MW-8S	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-9D	0.002181	0.001922	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9S	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-10	0.002579	0.002046	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-11	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-12	0.002281	0.00172	0.01	No	12	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13D	0.003008	0.001855	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13S	0.003841	0.003239	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-14	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-15	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-16	0.005	0.00159	0.01	No	13	92.31	No	0.01	NP (NDs)
Barium (mg/L)	MR-AP-MW-1	0.09172	0.06054	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.0246	0.0143	2	No	13	0	No	0.01	NP (normality)
Barium (mg/L)	MR-AP-MW-3D	0.0334	0.0229	2	No	13	0	No	0.01	NP (normality)
Barium (mg/L)	MR-AP-MW-3S	0.395	0.073	2	No	13	0	No	0.01	NP (normality)
Barium (mg/L)	MR-AP-MW-4	0.01473	0.01299	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01601	0.01494	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-PZ-5	0.1624	0.08177	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02698	0.02496	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7D	0.03377	0.03039	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7S	0.04049	0.03548	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-8D	0.0452	0.03231	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-8S	0.02753	0.01906	2	No	13	0	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-9D	0.01374	0.01171	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9S	0.03309	0.01794	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.0157	0.0125	2	No	13	0	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.04025	0.02955	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.02376	0.0193	2	No	12	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13D	0.08387	0.07033	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13S	0.02226	0.01871	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-14	0.08133	0.06955	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-15	0.1075	0.06985	2	No	13	0	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.03453	0.02463	2	No	13	0	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-1	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-2	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	MR-AP-MW-3D	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-3S	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-4	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-5	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-PZ-5	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-6	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-7D	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-7S	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-8D	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-8S	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-9D	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-9S	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-10	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-11	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-12	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-13D	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-13S	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-14	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-15	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MR-AP-MW-16	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-1	0.001	0.000372	0.005	No	13	92.31	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-2	0.001	0.000219	0.005	No	13	92.31	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-3D	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-3S	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-4	0.001	0.000239	0.005	No	13	38.46	No	0.01	NP (normality)
Cadmium (mg/L)	MR-AP-MW-5	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-PZ-5	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-6	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-7D	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-7S	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-8D	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-8S	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-9D	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-9S	0.001	0.000319	0.005	No	13	92.31	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-10	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-11	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13D	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13S	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-14	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-15	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-16	0.001	0.000222	0.005	No	13	84.62	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-1	0.01088	0.003556	0.1	No	13	15.38	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-2	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3D	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3S	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-4	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-PZ-5	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-6	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7D	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7S	0.01	0.00207	0.1	No	13	92.31	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-8D	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-8S	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-9D	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-9S	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-10	0.0112	0.01	0.1	No	13	92.31	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-11	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-12	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-13D	0.01	0.00264	0.1	No	13	92.31	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-13S	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-14	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-15	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	MR-AP-MW-16	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-1	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-2	0.0878	0.05903	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3D	0.008187	0.006185	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3S	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	MR-AP-MW-4	0.03755	0.02211	0.006	Yes	13	0	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-5	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-PZ-5	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-6	0.06767	0.05258	0.006	Yes	13	0	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7D	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-7S	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-8D	0.005326	0.00316	0.006	No	13	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-8S	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-9D	0.01979	0.01673	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-9S	0.0076	0.00419	0.006	No	13	61.54	No	0.01	NP (normality)
Cobalt (mg/L)	MR-AP-MW-10	0.005	0.0021	0.006	No	13	46.15	No	0.01	NP (normality)
Cobalt (mg/L)	MR-AP-MW-11	0.005	0.00316	0.006	No	13	84.62	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.005	0.00211	0.006	No	12	91.67	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-13D	0.005	0.00214	0.006	No	13	84.62	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-13S	0.022	0.02012	0.006	Yes	13	0	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-14	0.005	0.005	0.006	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-15	0.005	0.0021	0.006	No	13	92.31	No	0.01	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-16	0.0389	0.00228	0.006	No	13	38.46	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	0.5753	0.2771	5	No	12	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	0.8215	0.3217	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	0.5879	0.1827	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	0.6511	0.1031	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	0.6075	0.1568	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	0.7619	0.3819	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	0.5367	0.2545	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	0.4323	0.1293	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7D	0.5736	0.3119	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7S	0.5478	0.2243	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-8D	0.6365	0.1008	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-8S	0.3876	0.1216	5	No	13	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9D	0.5597	0.08654	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9S	0.698	0.3405	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	0.6447	0.1329	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	0.4657	0.1553	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	0.7543	0.4007	5	No	12	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13D	0.4926	0.28	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13S	0.6207	0.03339	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14	0.5037	0.14	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	0.5756	0.1732	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	0.6652	0.1627	5	No	13	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-1	0.163	0.1085	4	No	14	7.143	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-2	0.1171	0.05818	4	No	14	14.29	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-3D	0.3492	0.2325	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-3S	0.2988	0.2069	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-4	0.2884	0.2126	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-5	0.3701	0.2427	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-PZ-5	1.301	0.8287	4	No	14	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-6	0.116	0.07029	4	No	14	14.29	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-7D	0.1181	0.06894	4	No	14	7.143	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-7S	0.2321	0.1382	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-8D	0.3141	0.2078	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-8S	0.5357	0.3652	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-9D	0.1561	0.08516	4	No	14	7.143	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-9S	0.2079	0.1152	4	No	14	7.143	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-10	0.4319	0.3214	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-11	0.1452	0.104	4	No	14	7.143	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-12	0.7482	0.5684	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-13D	0.1532	0.0877	4	No	14	7.143	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-13S	0.1116	0.07071	4	No	14	7.143	No	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-14	0.1907	0.1248	4	No	14	7.143	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-15	0.1162	0.08097	4	No	14	7.143	x^2	0.01	Param.
Fluoride (mg/L)	MR-AP-MW-16	0.1957	0.1107	4	No	14	7.143	No	0.01	Param.
Lead (mg/L)	MR-AP-MW-1	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-2	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-3D	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-3S	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-4	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-5	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	MR-AP-PZ-5	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-6	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-7D	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-7S	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-8D	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-8S	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-9D	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-9S	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-10	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-11	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-12	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-13D	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-13S	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-14	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-15	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	MR-AP-MW-16	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	MR-AP-MW-1	0.1955	0.13	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.2601	0.1995	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3D	0.163	0.11	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-3S	0.2224	0.1677	0.05	Yes	13	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.1135	0.08523	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.307	0.223	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-PZ-5	0.199	0.1449	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.09017	0.07774	0.05	Yes	13	0	x^(1/3)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7D	0.1237	0.1039	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7S	0.18	0.141	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-8D	0.05226	0.03959	0.05	No	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-8S	0.04379	0.02978	0.05	No	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9D	0.089	0.0709	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-9S	0.1572	0.08154	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.1929	0.1688	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.318	0.116	0.05	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	MR-AP-MW-12	0.2381	0.1827	0.05	Yes	12	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13D	0.04375	0.03831	0.05	No	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13S	0.08578	0.07836	0.05	Yes	13	0	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-14	0.02189	0.02005	0.05	No	13	7.692	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.021	0.01886	0.05	No	13	7.692	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.066	0.03354	0.05	No	13	0	No	0.01	Param.
Mercury (mg/L)	MR-AP-MW-1	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-2	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-3D	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-3S	0.0005	0.000318	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-4	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-5	0.0005	0.000319	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-PZ-5	0.0005	0.000311	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-6	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-7D	0.0005	0.000318	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-7S	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-8D	0.0005	0.000303	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-8S	0.0005	0.000334	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-9D	0.0005	0.000331	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-9S	0.0005	0.000345	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-10	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-11	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-12	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-13D	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-13S	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-14	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-15	0.0005	0.000316	0.002	No	13	92.31	No	0.01	NP (NDs)
Mercury (mg/L)	MR-AP-MW-16	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-1	0.01025	0.007577	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-3D	0.02435	0.02194	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.0557	0.028	0.1	No	13	0	No	0.01	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-4	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-5	0.07275	0.06616	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.01209	0.005859	0.1	No	13	38.46	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-6	0.006524	0.00489	0.1	No	13	0	No	0.01	Param.

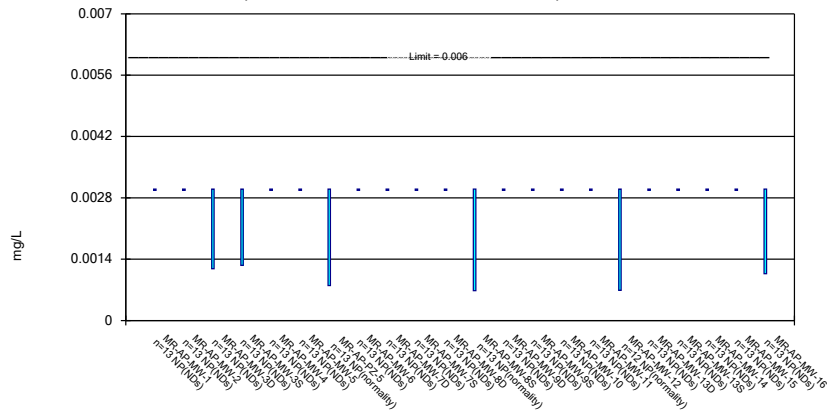
Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/21/2020, 2:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	MR-AP-MW-7D	0.01141	0.00677	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7S	0.03118	0.02731	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-8D	0.02537	0.01397	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-8S	0.05462	0.03764	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9D	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-9S	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-10	0.1142	0.07832	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-11	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-12	0.31	0.0322	0.1	No	12	0	No	0.01	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-13D	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-13S	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-14	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-15	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-16	0.03426	0.007737	0.1	No	13	0	x^(1/3)	0.01	Param.
Selenium (mg/L)	MR-AP-MW-1	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-2	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-3D	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-3S	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-4	0.01	0.00255	0.05	No	13	46.15	No	0.01	NP (normality)
Selenium (mg/L)	MR-AP-MW-5	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-PZ-5	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-6	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-7D	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-7S	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-8D	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-8S	0.01	0.00359	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-9D	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-9S	0.01	0.00357	0.05	No	13	84.62	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-10	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-11	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-12	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-13D	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-13S	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-14	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-15	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	MR-AP-MW-16	0.01	0.00262	0.05	No	13	61.54	No	0.01	NP (normality)
Thallium (mg/L)	MR-AP-MW-1	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-2	0.001	0.000214	0.002	No	13	69.23	No	0.01	NP (normality)
Thallium (mg/L)	MR-AP-MW-3D	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-3S	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-5	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-PZ-5	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-6	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-7D	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-7S	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-8D	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-8S	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-9D	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-9S	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-10	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-11	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-12	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13D	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13S	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-14	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-15	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	MR-AP-MW-16	0.001	0.000242	0.002	No	13	76.92	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

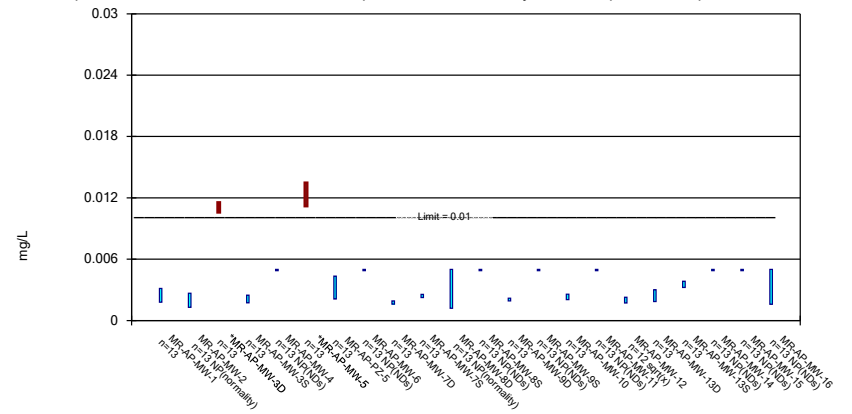
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

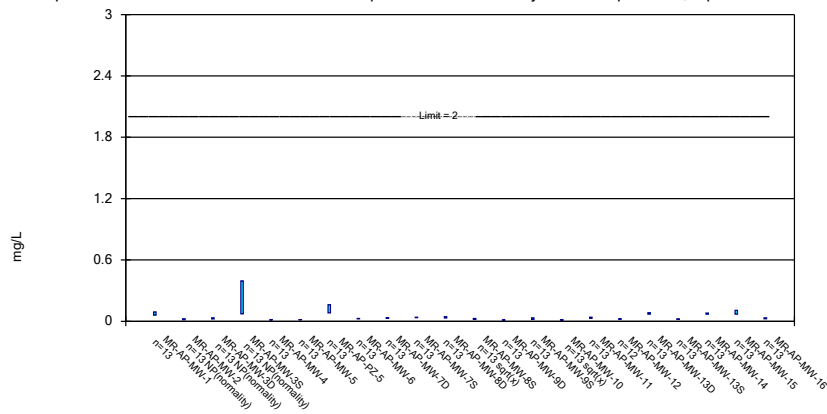
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Constituent: Arsenic Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

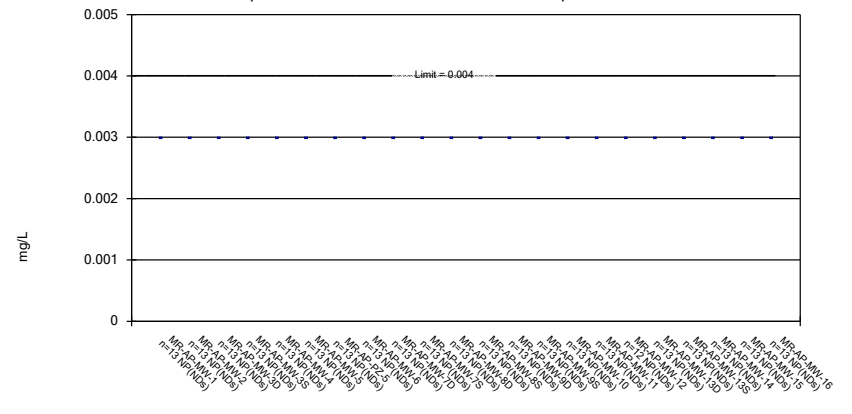
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Constituent: Barium Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

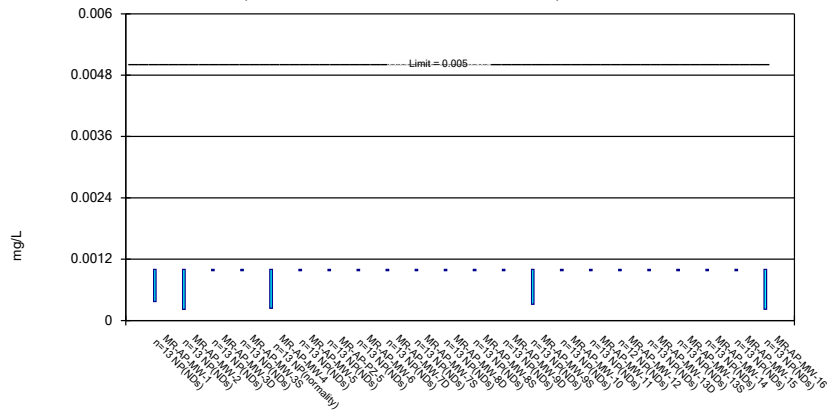
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Constituent: Beryllium Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

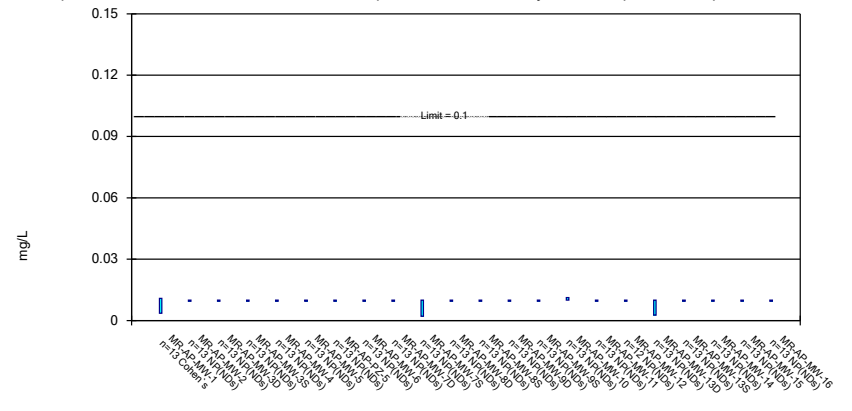
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Constituent: Cadmium Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

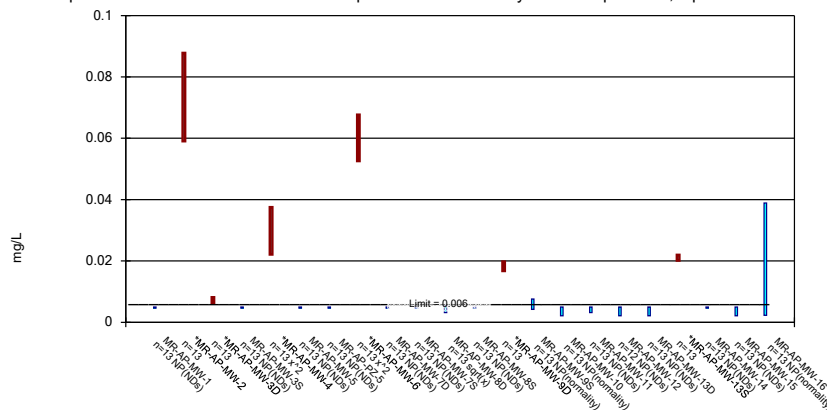
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Constituent: Chromium Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

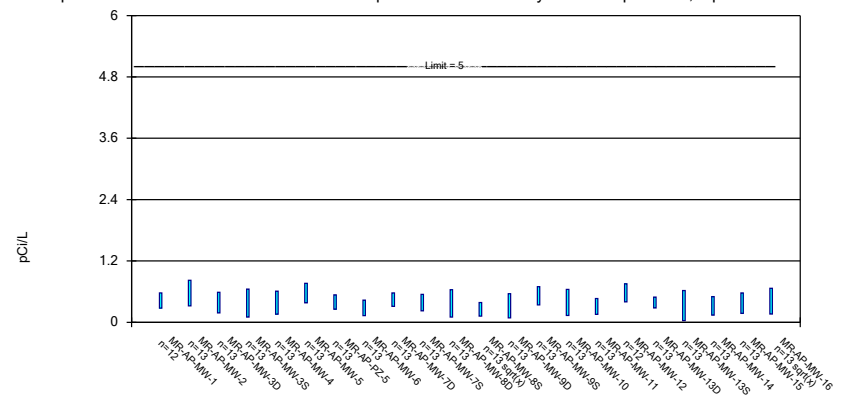
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Constituent: Cobalt Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

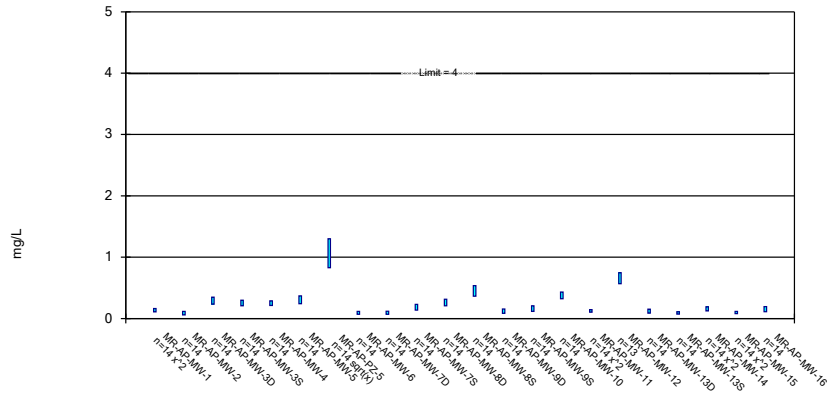
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Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

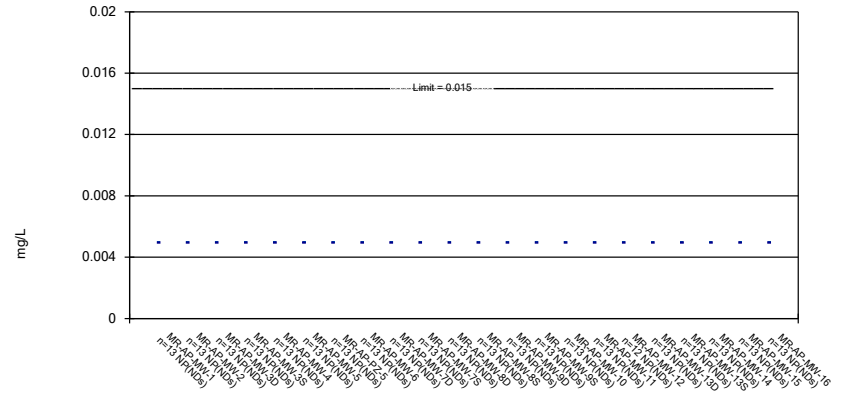
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Constituent: Fluoride Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

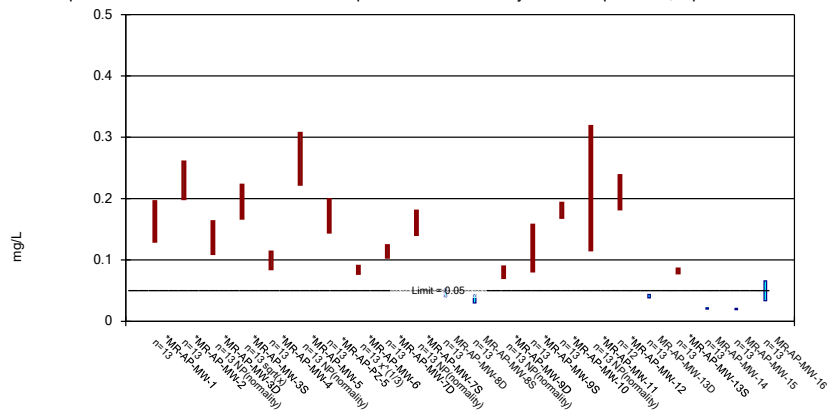
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Constituent: Lead Analysis Run 1/21/2020 2:34 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

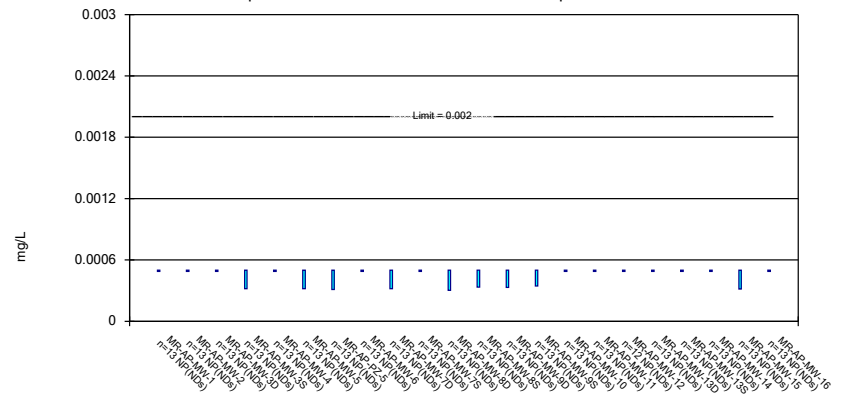
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Constituent: Lithium Analysis Run 1/21/2020 2:35 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

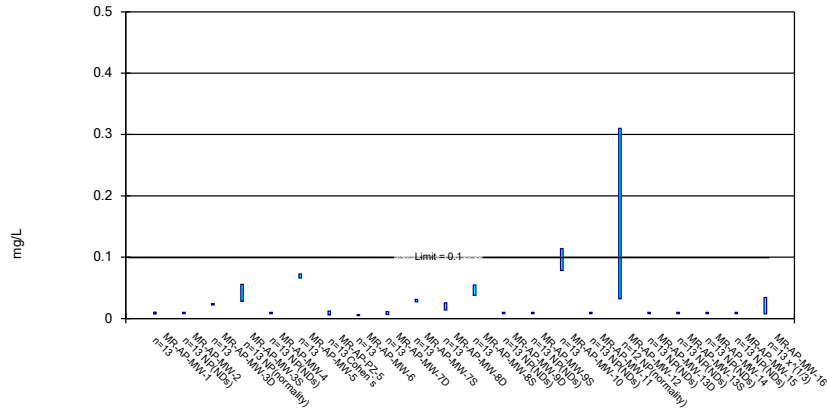
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Constituent: Mercury Analysis Run 1/21/2020 2:35 PM View: Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

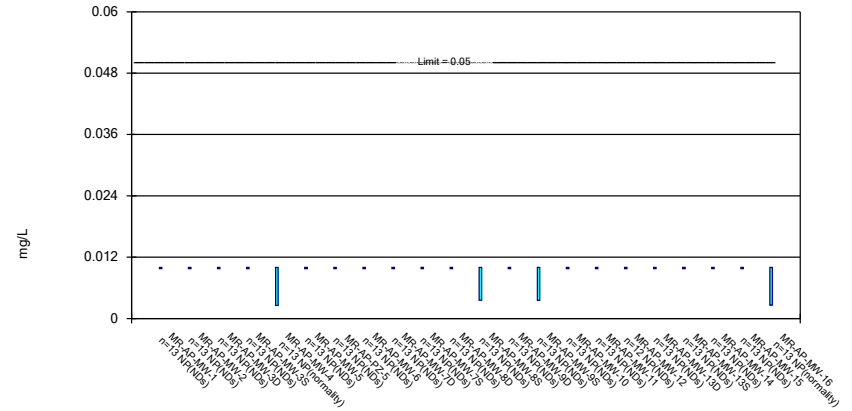
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/21/2020 2:35 PM View: Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

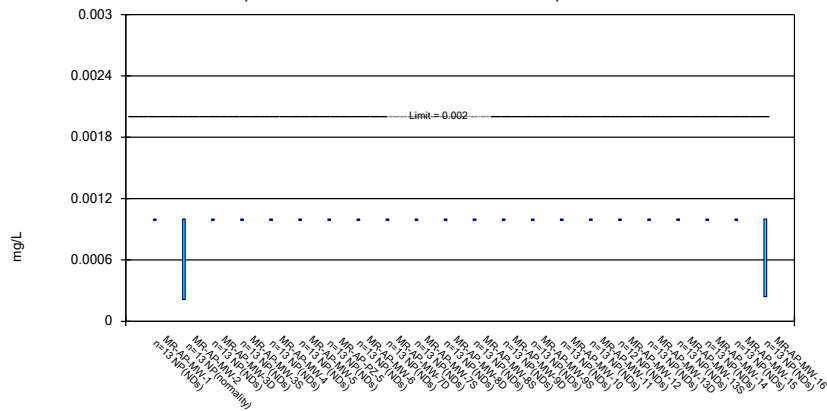
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/21/2020 2:35 PM View: Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

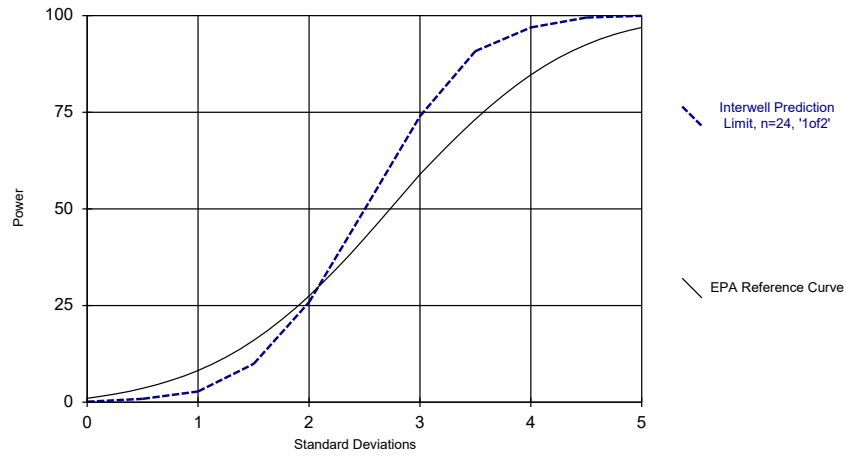
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/21/2020 2:35 PM View: Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

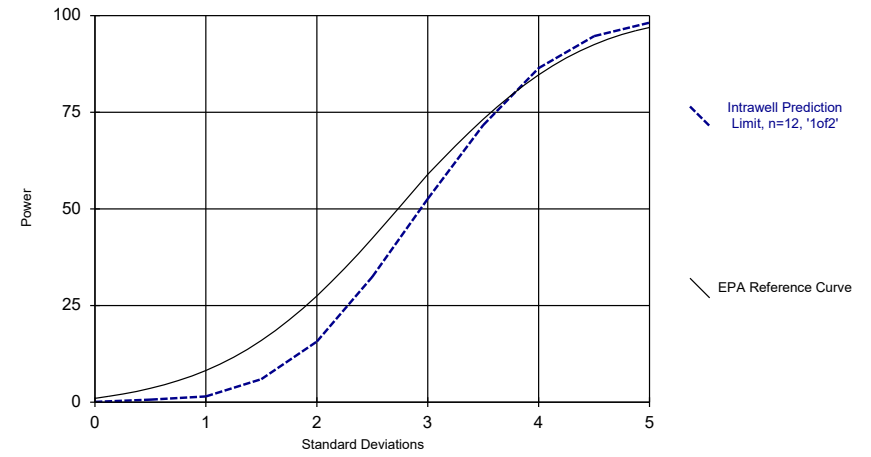
Power Curve



Kappa = 2.421, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/30/2020 11:09 AM View: Power Curves
Plant Miller Client: Southern Company Data: Miller Ash Pond

Power Curve



Kappa = 2.931, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/30/2020 11:09 AM View: Power Curves
Plant Miller Client: Southern Company Data: Miller Ash Pond